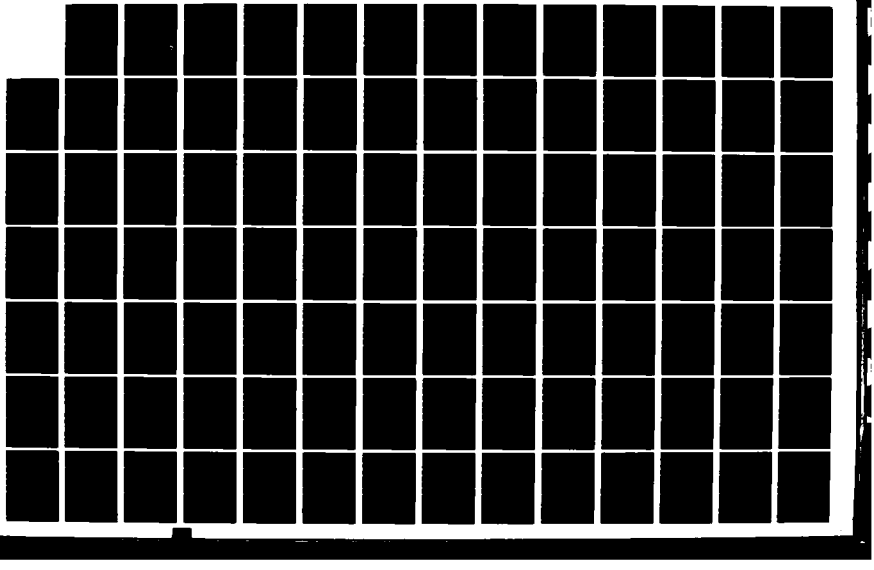
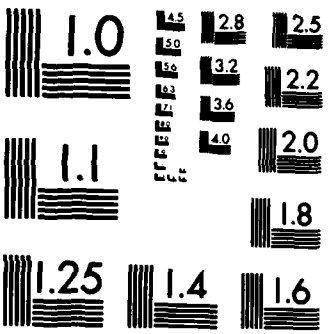
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AFGL-TR-82-0294 (III)

FINAL TACTICAL DECISION AID (FTDA) FOR INFRARED (8-12 μm) SYSTEMS - MANUAL VERSION

Appendix B - Insolation and Sky Radiation Tables

Donald B. Hodges
Ralph Shapiro
C. N. Touart
Ronald F. Wachtmann

Systems and Applied Sciences Corporation (SASC)
6811 Kenilworth Avenue
Riverdale, MD 20737

September 15, 1982

Scientific Report No. 3

AD A127853

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INSOLATION	SKY RADIATION
ZENITH ANGLE	CLEAR SKY IRRADIANCE
SOLAR FLUX	

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Tables are presented for use in determining solar irradiance and sky radiation values needed to calculate maximum lock-on range (MLOR) and maximum acquisition range (AR) from the Manual Version of the IR FTDA. A table for use in determining solar irradiance as a function of terrain elevation is also presented. Errors in computed sea level values of sky radiation as a function of terrain elevation are discussed and found to be small.

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Jan - Apr. 135
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May - Aug. 237
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May - Aug. 255
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0. 267

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May - Aug. 271
Sep - Dec. 275

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May - Aug. 285
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May - Aug. 301
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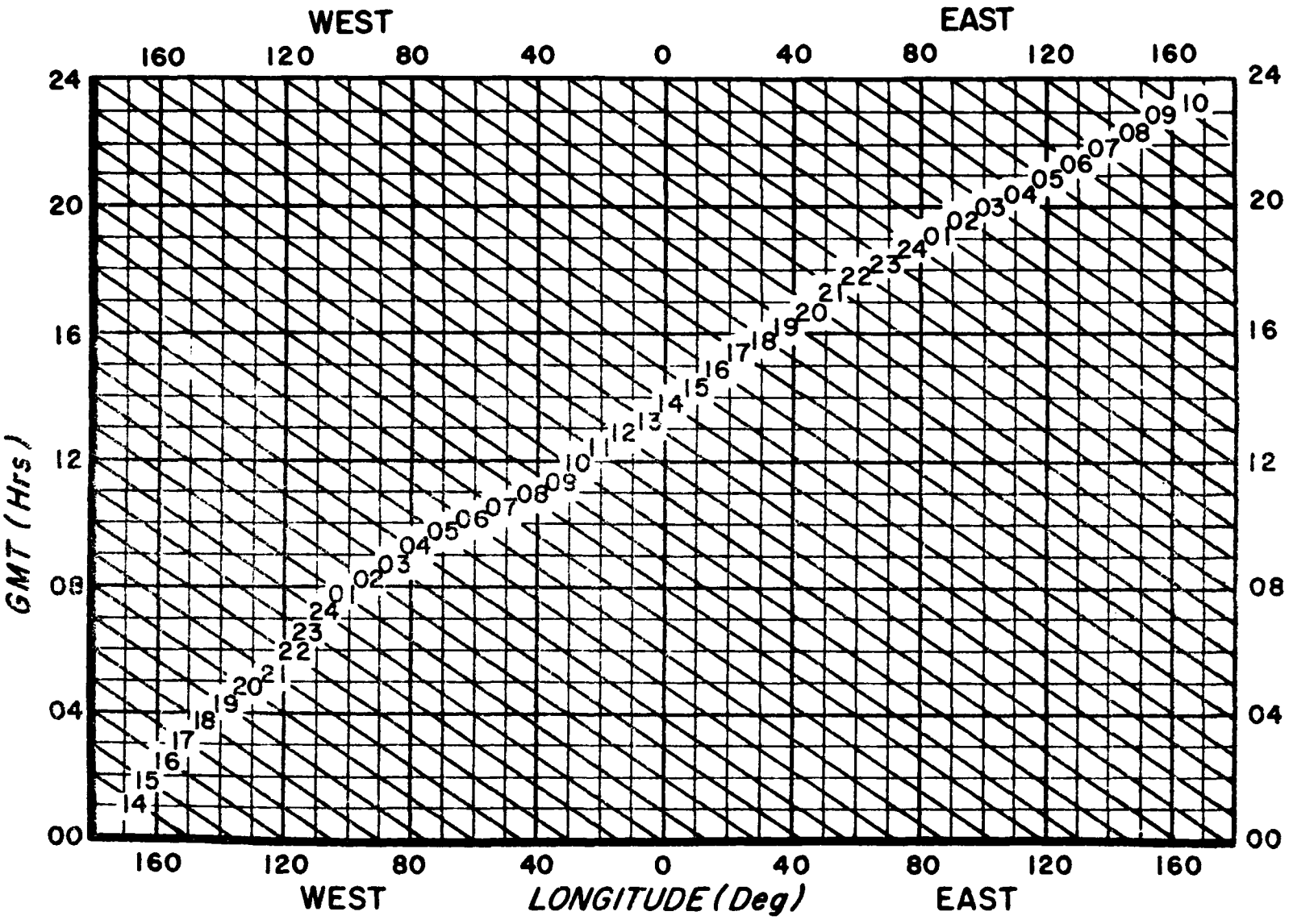


Fig. B-1. Mean Sun Time (MST) as a Function of Greenwich Mean Time (GMT) and Longitude

Mean Sun Time (MST) may be computed from the equation MST = GMT ± (longitude/15), where the expression in parenthesis is positive for east longitude and negative for west longitude.

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	002	035
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	014	050	084
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	064	100	133
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.11	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	037	077	115	150	183
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.09	.12	.15	.17
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	048	089	128	166	201	233
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.16	.19	.21
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	005	049	100	141	180	217	251	283
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.22	.25
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015	058	102	152	193	232	268	302	333
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.15	.18	.21	.24	.26	.28
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	068	111	154	205	245	283	319	352	383
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.09	.12	.15	.19	.22	.25	.27	.30	.32
	000	000	000	000	000	000	000	000	000	000	000	000	000	033	077	120	164	206	256	296	334	369	402	432

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE: JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30
0700	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000
0800	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	004
15	.00	.00	.00	.00	.00	.02	.04
	000	000	000	000	005	025	049
30	.01	.01	.01	.02	.03	.05	.07
	008	011	019	032	048	069	093
45	.03	.04	.04	.05	.06	.08	.10
	047	051	059	072	089	110	135
0900	.06	.06	.07	.08	.09	.11	.12
	084	088	097	110	128	149	174
15	.08	.09	.09	.10	.12	.13	.15
	119	123	133	146	164	186	212
30	.11	.11	.12	.13	.14	.16	.18
	151	156	166	180	198	221	247
45	.13	.13	.14	.15	.16	.18	.20
	181	186	197	211	230	253	279

MST	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25
0700	.00	.00	.00	.00	.00
	000	000	000	000	000
15	.00	.00	.00	.00	.02
	000	000	000	000	030
30	.00	.00	.00	.03	.06
	000	000	005	042	080
45	.00	.02	.04	.07	.09
	000	021	055	091	130
0800	.03	.05	.07	.10	.13
	037	068	102	139	178
15	.06	.08	.11	.13	.16
	083	114	149	186	224
30	.09	.11	.14	.16	.19
	127	159	193	230	269
45	.12	.14	.17	.20	.22
	169	201	236	273	312
0900	.15	.17	.20	.22	.25
	209	241	276	314	353
15	.18	.20	.22	.25	.28
	247	279	315	352	391
30	.20	.22	.25	.28	.31
	282	315	351	388	427
45	.22	.25	.27	.30	.33
	315	348	384	421	461

MST	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30
	.03	.06	.09	.13	.16	.19
	043	086	129	172	216	258
	.07	.10	.13	.16	.19	.23
	095	137	180	224	267	309
	.11	.14	.17	.20	.23	.26
	146	188	231	274	317	359
	.14	.17	.20	.23	.27	.30
	195	237	280	323	366	407
	.18	.21	.24	.27	.30	.33
	243	286	328	371	413	454
	.21	.24	.27	.30	.33	.36
	290	332	374	417	459	499
	.24	.27	.30	.33	.37	.40
	335	377	419	461	502	543
	.27	.30	.33	.36	.40	.43
	378	419	461	503	544	584
	.30	.33	.36	.39	.42	.45
	416	460	502	543	584	624
	.33	.36	.39	.42	.45	.48
	457	498	540	581	621	660
	.35	.39	.42	.45	.48	.51
	492	534	575	616	656	695
	.38	.41	.44	.47	.50	.53
	526	567	608	648	688	726

MST	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
	.23	.25	.28	.31	.33	.36
	307	347	384	419	452	481
	.26	.29	.32	.35	.37	.39
	358	397	434	468	500	529
	.30	.33	.35	.38	.41	.43
	407	445	482	516	547	576
	.33	.36	.39	.42	.44	.46
	455	493	529	562	593	621
	.37	.40	.42	.45	.47	.49
	501	539	575	608	638	665
	.40	.43	.46	.48	.50	.53
	546	583	618	651	681	708
	.43	.46	.49	.51	.53	.56
	589	626	660	692	722	748
	.46	.49	.52	.54	.56	.58
	630	666	700	732	761	787
	.49	.52	.54	.57	.59	.61
	669	705	738	769	797	823
	.52	.54	.57	.59	.62	.64
	705	740	773	804	832	857
	.54	.57	.59	.62	.64	.66
	739	774	806	836	863	888
	.56	.59	.62	.64	.66	.68
	770	804	836	866	893	917

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																							
	JAN							FEB						MAR							APR																				
	1		5		10		15		20		25		30	5		10		15		20		25	5		10		15		20		25		30	5		10		15		20		25		30
1000	.15		.15		.16		.17		.18		.20		.22	.25		.27		.30		.32		.35	.40		.43		.46		.49		.52		.55	.58		.61		.64		.66		.68		.70
	208		214		225		240		259		282		309	345		379		414		452		491	556		597		638		678		717		755	798		832		863		892		919		943
15	.16		.17		.18		.19		.20		.22		.24	.26		.29		.32		.34		.37	.42		.45		.48		.51		.54		.57	.60		.63		.65		.68		.70		.72
	233		238		250		265		285		309		336	372		406		442		480		519	584		624		665		705		743		781	823		857		888		916		942		966
30	.18		.18		.19		.20		.22		.24		.26	.28		.31		.33		.36		.39	.44		.47		.50		.53		.56		.59	.62		.64		.67		.69		.71		.73
	254		260		272		288		308		332		360	397		430		467		504		544	608		649		689		728		767		804	846		878		909		937		963		986
45	.19		.20		.21		.22		.23		.25		.27	.30		.32		.35		.38		.41	.45		.48		.51		.54		.57		.60	.63		.65		.68		.70		.73		.74
	272		279		291		308		328		353		*380	418		452		488		526		565	629		670		710		749		787		823	865		897		927		955		980		*003
1100	.20		[illegible]		.22		.23		.24		.26		.28	.31		.33		.36		.39		.42	.47		.50		.53		.56		.58		.61	.64		.67		.69		.72		.74		.75
	289		30		307		324		345		370		398	436		470		507		544		584	647		687		727		766		803		840	881		912		942		970		995		*017
15	[illegible]		.22		.23		.24		.25		.27		.29	.32		.35		.37		.40		.43	.48		.51		.54		.57		.59		.62	.65		.68		.70		.72		.74		.76
	300		307		320		338		359		384		413	451		485		522		560		599	662		702		741		780		817		853	893		925		954		981		*006		*028
30	.21		[illegible]		.23		.25		.26		.28		.30	.33		.35		.38		.41		.44	.48		.51		.54		.57		.60		.63	.66		.68		.71		.73		.75		.77
	308		[illegible]		330		348		370		395		424	462		497		533		571		610	674		713		752		790		827		862	902		933		962		989		*014		*036
45	.22		.23		.24		.25		.27		.29		.31	.33		.36		.39		.41		.44	.49		.52		.55		.58		.61		.63	.66		.69		.71		.73		.75		.77
	314		322		337		355		377		403		432	471		505		542		580		619	682		721		759		797		834		869	908		939		967		994		*018		*040
1200	.22		.23		.24		.25		.27		.29		.31	.34		.36		.39		.42		.45	.49		.52		.55		.58		.61		.64	.67		.69		.71		.73		.75		.77
	317		325		340		359		381		407		437	475		510		547		585		623	686		725		763		801		837		871	910		941		969		995		*019		*041
15	.22		.23		.24		.25		.27		.29		.31	.34		.36		.39		.42		.45	.49		.52		.55		.58		.61		.63	.67		.69		.71		.73		.75		.77
	316		325		340		359		382		408		438	477		512		548		586		625	687		726		764		801		837		871	909		939		968		993		*017		*039
30	.22		.23		.24		.25		.27		.29		.31	.34		.36		.39		.42		.45	.49		.52		.55		.58		.61		.63	.66		.69		.71		.73		.75		.77
	311		321		336		356		379		406		436	475		510		547		584		623	685		723		761		798		833		867	905		935		962		988		*012		*033
45	.22		.22		.23		.25		.26		.28		.31	.33		.36		.39		.41		.44	.49		.52		.55		.57		.60		.63	.66		.69		.70		.72		.74		.76
	304		314		330		350		373		400		430	470		505		541		579		617	679		717		754		791		826		859	897		927		954		980		*003		*024

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1300	.21	.21	.23	.24	.26	.28	.30	.33	.35	.38	.41	.44	.48	.51	.54	.57	.59	.62	.65	.67	.69	.71	.73	.75
	293	303	320	340	364	391	421	461	496	532	570	608	670	707	744	780	815	848	886	915	942	968	991	*012
15	.20	.21	.22	.23	.25	.27	.29	.32	.34	.37	.40	.43	.47	.50	.53	.56	.58	.61	.64	.66	.68	.70	.72	.74
	280	290	307	327	352	379	409	449	484	520	558	596	657	694	731	767	801	834	871	900	927	953	976	997
30	.19	.19	.21	.22	.24	.26	.28	.31	.33	.36	.39	.42	.46	.49	.52	.54	.57	.60	.62	.65	.67	.69	.71	.73
	263	273	290	311	336	363	394	434	469	505	542	580	641	678	714	750	784	817	853	882	909	934	957	979
45	.17	.18	.19	.21	.22	.24	.27	.30	.32	.35	.37	.40	.45	.47	.50	.53	.55	.58	.61	.63	.65	.67	.69	.71
	243	254	271	292	317	345	375	415	450	486	523	561	621	658	694	730	763	796	832	861	888	913	936	957
1400	.16	.16	.18	.19	.21	.23	.25	.28	.31	.33	.36	.39	.43	.46	.49	.51	.54	.56	.59	.61	.64	.66	.67	.69
	220	231	249	270	295	323	354	393	428	464	501	539	599	635	671	706	740	772	808	837	864	889	912	933
15	.14	.15	.16	.17	.19	.21	.23	.26	.29	.31	.34	.37	.41	.44	.47	.49	.52	.54	.57	.59	.62	.64	.65	.67
	194	205	223	245	270	298	329	369	403	440	476	514	573	609	645	680	713	745	781	810	836	861	885	906
30	.12	.13	.14	.15	.17	.19	.21	.24	.27	.29	.32	.35	.39	.42	.45	.47	.50	.52	.55	.57	.59	.61	.63	.65
	165	177	195	217	242	271	301	341	376	412	448	485	544	581	616	650	683	715	751	780	806	831	855	876
45	.10	.10	.12	.13	.15	.17	.19	.22	.25	.27	.30	.33	.37	.40	.42	.45	.47	.50	.53	.55	.57	.59	.61	.63
	134	146	165	187	212	240	271	310	345	381	417	454	513	549	584	618	651	683	719	747	774	799	822	844
1500	.07	.08	.09	.11	.13	.15	.17	.20	.22	.25	.27	.30	.34	.37	.40	.42	.45	.47	.50	.52	.54	.56	.58	.60
	100	113	131	153	179	207	238	277	312	347	384	420	478	514	549	583	616	647	683	712	738	764	787	809
15	.05	.05	.07	.08	.10	.12	.14	.17	.20	.22	.25	.28	.32	.34	.37	.40	.42	.44	.47	.49	.52	.54	.55	.57
	064	077	095	118	143	172	202	241	276	311	347	384	442	477	512	546	578	610	646	674	701	726	750	772
30	.02	.03	.04	.06	.08	.10	.12	.14	.17	.19	.22	.25	.29	.32	.34	.37	.39	.42	.44	.47	.49	.51	.53	.54
	026	039	058	080	105	134	164	203	238	273	309	345	402	438	472	506	538	570	606	634	661	686	710	733
45	.00	.00	.01	.03	.05	.07	.09	.12	.14	.17	.19	.22	.26	.29	.31	.34	.36	.38	.41	.43	.46	.48	.49	.51
	000	000	017	040	065	094	124	163	197	232	268	304	361	396	430	464	496	527	563	592	619	645	669	691

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1600	.00	.00	.00	.00	.02	.04	.06	.09	.11	.14	.16	.19	.23	.25	.28	.30	.33	.35	.38	.40	.42	.44	.46	.48
	000	000	000	000	023	051	082	121	154	189	225	260	317	352	386	420	452	483	519	548	575	601	625	648
15	.00	.00	.00	.00	.00	.01	.03	.05	.08	.10	.13	.15	.20	.22	.25	.27	.30	.32	.35	.37	.39	.41	.43	.45
	000	000	000	000	000	008	038	076	110	144	180	215	272	306	340	374	406	437	473	502	530	556	580	604
30	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.12	.16	.19	.21	.24	.26	.28	.31	.33	.36	.38	.40	.41
	000	000	000	000	000	000	000	030	064	098	133	168	224	259	293	326	358	390	426	455	483	509	534	558
45	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.13	.15	.18	.20	.23	.25	.28	.30	.32	.34	.36	.38
	000	000	000	000	000	000	000	000	016	050	085	120	176	210	244	277	309	341	377	406	434	461	486	511
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.09	.12	.14	.16	.19	.21	.24	.26	.28	.30	.32	.34
	000	000	000	000	000	000	000	000	000	001	035	070	126	160	194	227	259	291	327	357	385	412	438	462
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.08	.10	.13	.15	.18	.20	.22	.25	.27	.29	.31
	000	000	000	000	000	000	000	000	000	000	000	019	074	109	142	176	208	240	276	306	335	362	388	413
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.09	.11	.14	.16	.19	.21	.23	.25	.27
	000	000	000	000	000	000	000	000	000	000	000	000	022	057	090	124	156	188	225	255	284	311	338	364
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.10	.13	.15	.17	.19	.21	.23
	000	000	000	000	000	000	000	000	000	000	000	000	000	004	038	071	104	136	173	203	232	260	288	313
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.11	.13	.15	.18	.20
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	018	051	083	121	151	181	209	237	263
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.12	.14	.16
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	068	099	129	158	186	213
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.10	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	016	047	078	107	136	163
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	057	086	114

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR										APR											
	1		5		10		15		20		25		30	5		10		15		20		25	5		10		15		20		25		30	
1900	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.01	007	.03	036	.05	065
15	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.01	017
30	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000
45	.00	000	.00	000	.00	000	.00	000	.00	000	.00	*000	.00	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000	.00	000

JAN-APR 54 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.01	.02	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	014	022	025	026	023	016	007	000	000	000	000	000	000	000	000	000	000	000
0400	.00	.00	.00	.01	.02	.03	.04	.05	.05	.05	.05	.04	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	007	026	041	054	062	065	065	062	056	046	034	018	000	000	000	000	000	000	000	000	000
15	.00	.00	.02	.04	.05	.06	.07	.08	.08	.08	.08	.07	.07	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00
	000	002	028	050	068	083	096	103	107	107	103	097	087	075	059	042	022	000	000	000	000	000	000	000
30	.02	.04	.05	.07	.08	.10	.11	.11	.11	.11	.11	.11	.10	.09	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00
	020	048	073	094	112	127	139	146	149	149	146	139	130	117	102	085	065	043	015	000	000	000	000	000
45	.05	.07	.09	.11	.12	.13	.14	.14	.15	.15	.14	.14	.13	.12	.11	.10	.08	.07	.05	.03	.01	.00	.00	.00
	066	094	119	140	157	171	184	190	193	193	189	183	173	161	146	129	109	088	060	035	009	000	000	000
0500	.09	.11	.12	.14	.15	.16	.17	.18	.18	.18	.18	.17	.16	.16	.14	.13	.12	.10	.08	.06	.04	.02	.00	.00
	114	142	168	186	203	217	229	235	238	237	234	227	218	206	191	174	155	134	106	082	056	029	001	000
15	.12	.14	.16	.18	.19	.20	.21	.21	.21	.21	.21	.21	.20	.19	.18	.17	.15	.14	.12	.10	.08	.06	.04	.02
	163	190	213	234	250	264	275	281	284	283	279	273	263	251	237	220	201	181	154	130	104	078	050	022
30	.16	.18	.20	.21	.22	.23	.24	.25	.25	.25	.25	.24	.23	.23	.21	.20	.19	.17	.15	.13	.12	.10	.08	.05
	212	238	262	281	298	311	322	327	330	329	325	319	309	298	283	267	248	228	202	178	153	127	100	072
45	.19	.21	.23	.25	.26	.27	.28	.28	.28	.28	.28	.28	.27	.26	.25	.24	.22	.21	.19	.17	.15	.13	.11	.09
	262	288	310	330	346	358	369	374	376	376	372	365	356	344	330	314	296	276	250	227	203	177	151	123

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600		.23	.25	.27	.28	.30	.31	.31	.32	.32	.32	.32	.31	.30	.30	.29	.27	.26	.24	.23	.21	.19	.17	.15	.13
		311	337	359	378	394	406	416	421	423	422	419	412	403	391	378	362	344	324	299	276	252	227	201	174
15		.27	.29	.30	.32	.33	.34	.35	.35	.35	.35	.35	.35	.34	.33	.32	.31	.30	.28	.26	.24	.23	.21	.19	.17
		361	386	408	426	441	453	463	468	470	469	465	459	450	438	425	409	392	373	348	326	302	278	252	225
30		.31	.32	.34	.36	.37	.38	.38	.39	.39	.39	.39	.38	.38	.37	.36	.35	.33	.32	.30	.28	.26	.25	.23	.21
		411	435	456	474	489	501	510	515	517	516	512	505	497	485	472	457	440	421	397	375	352	328	302	276
45		.34	.36	.38	.39	.40	.41	.42	.42	.42	.42	.42	.42	.41	.40	.39	.38	.37	.35	.33	.32	.30	.28	.26	.24
		460	484	504	522	536	548	557	561	563	562	558	552	543	532	519	504	487	469	445	424	401	377	352	326
0700		.38	.40	.41	.43	.44	.45	.45	.46	.46	.46	.46	.45	.45	.44	.43	.42	.40	.39	.37	.35	.34	.32	.30	.28
		508	531	552	569	583	594	603	607	609	607	604	597	589	578	565	551	535	517	493	472	450	426	402	376
15		.41	.43	.45	.46	.47	.48	.49	.49	.49	.49	.49	.49	.48	.47	.46	.45	.44	.42	.41	.39	.37	.36	.34	.32
		555	578	598	615	629	639	648	652	654	652	649	642	634	624	611	597	581	563	540	520	498	475	450	425
30		.45	.47	.48	.49	.51	.51	.52	.52	.53	.53	.52	.52	.51	.50	.50	.48	.47	.46	.44	.43	.41	.39	.37	.35
		602	624	644	660	673	684	692	696	697	696	693	686	678	668	656	642	626	609	586	566	545	522	498	473
45		.48	.50	.51	.53	.54	.55	.55	.56	.56	.56	.56	.55	.55	.54	.53	.52	.51	.49	.47	.46	.44	.42	.41	.39
		647	669	688	704	717	727	735	739	740	739	735	729	721	711	699	686	670	654	631	612	590	568	544	519
0800		.51	.53	.55	.56	.57	.58	.58	.59	.59	.59	.59	.58	.58	.57	.56	.55	.54	.53	.51	.49	.48	.46	.44	.42
		690	712	730	746	759	768	777	780	782	780	777	771	763	753	742	728	713	697	675	656	635	612	589	564
15		.54	.56	.58	.59	.60	.61	.61	.62	.62	.62	.62	.61	.61	.60	.59	.58	.57	.56	.54	.52	.51	.49	.47	.45
		732	753	771	787	799	809	816	820	821	820	817	811	803	794	783	770	755	739	717	698	677	656	632	608
30		.57	.59	.61	.62	.63	.64	.64	.65	.65	.65	.65	.64	.64	.63	.62	.61	.60	.59	.57	.55	.54	.52	.50	.48
		772	793	811	826	838	847	855	858	859	858	855	850	842	833	822	809	795	779	758	739	718	697	674	649
45		.60	.62	.63	.65	.66	.66	.67	.67	.68	.68	.67	.67	.66	.66	.65	.64	.63	.62	.60	.58	.57	.55	.53	.51
		810	830	848	862	874	883	891	895	896	895	891	886	879	870	859	847	833	817	797	778	758	736	713	689

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.63	.65	.66	.67	.68	.69	.70	.70	.70	.70	.70	.70	.69	.68	.68	.67	.66	.64	.63	.61	.60	.58	.56	.54
	846	866	883	897	909	918	925	929	930	929	926	921	914	905	895	882	869	853	833	815	795	773	750	726
15	.65	.67	.68	.70	.71	.71	.72	.72	.73	.73	.72	.72	.72	.71	.70	.69	.68	.67	.65	.64	.62	.60	.59	.57
	879	899	916	930	941	950	957	961	962	961	958	953	947	938	928	916	902	887	867	843	829	808	785	761
30	.68	.69	.71	.72	.73	.74	.74	.75	.75	.75	.75	.74	.74	.73	.72	.71	.70	.69	.68	.66	.65	.63	.61	.59
	910	929	946	960	971	980	987	990	992	991	988	984	977	969	959	947	934	919	899	881	862	841	818	794
45	.70	.71	.73	.74	.75	.76	.76	.77	.77	.77	.77	.76	.76	.75	.75	.74	.73	.71	.70	.69	.67	.65	.63	.61
	939	957	974	987	998	*007	*014	*018	*019	*018	*016	*011	*005	997	987	976	963	948	929	911	892	870	848	824
1000	.72	.73	.75	.76	.77	.78	.78	.79	.79	.79	.79	.78	.78	.77	.77	.76	.75	.73	.72	.70	.69	.67	.65	.63
	964	983	999	*012	*023	*032	*039	*042	*044	*043	*041	*037	*031	*023	*013	*002	990	975	956	938	919	898	875	851
15	.73	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80	.80	.80	.79	.78	.77	.76	.75	.74	.72	.71	.69	.67	.65
	987	*005	*021	*034	*045	*054	*061	*064	*066	*066	*063	*059	*053	*046	*037	*026	*013	999	980	962	943	922	899	875
30	.75	.76	.78	.79	.80	.81	.81	.82	.82	.82	.82	.82	.81	.81	.80	.79	.78	.77	.75	.74	.72	.71	.69	.67
	*007	*025	*041	*054	*064	*073	*080	*084	*085	*085	*083	*079	*074	*066	*057	*047	*034	*020	*001	984	964	943	921	896
45	.76	.78	.79	.80	.81	.82	.83	.83	.83	.83	.83	.83	.82	.82	.81	.80	.79	.78	.77	.75	.74	.72	.70	.68
	*024	*042	*057	*070	*081	*089	*096	*100	*102	*102	*100	*096	*091	*084	*075	*065	*053	*039	*020	*002	983	962	939	914
1100	.77	.79	.80	.81	.82	.83	.84	.84	.84	.84	.84	.84	.84	.83	.82	.81	.81	.79	.78	.76	.75	.73	.71	.69
	*037	*055	*070	*083	*094	*102	*110	*114	*116	*116	*114	*111	*105	*099	*090	*080	*068	*054	*035	*018	998	977	954	929
15	.78	.79	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.84	.84	.83	.82	.81	.80	.79	.77	.76	.74	.72	.70
	*048	*065	*081	*093	*104	*113	*120	*124	*126	*127	*125	*122	*117	*110	*102	*092	*080	*066	*048	*030	*011	989	966	941
30	.78	.80	.81	.82	.83	.84	.85	.85	.86	.86	.86	.85	.85	.85	.84	.83	.82	.81	.79	.78	.76	.75	.73	.71
	*055	*073	*088	*101	*111	*120	*127	*132	*134	*135	*133	*130	*126	*119	*111	*101	*089	*076	*057	*039	*020	998	975	949
45	.79	.80	.82	.83	.84	.84	.85	.86	.86	.86	.86	.86	.85	.85	.84	.84	.83	.81	.80	.78	.77	.75	.73	.71
	*059	*077	*092	*105	*115	*124	*132	*136	*139	*139	*138	*136	*131	*125	*117	*107	*095	*082	*063	*045	*026	*004	980	954

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS CCS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200		.79	.80	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.86	.85	.85	.84	.83	.82	.80	.79	.77	.75	.73	.71
		*060	*077	*092	*105	*116	*125	*133	*137	*140	*141	*140	*138	*133	*127	*119	*110	*098	*085	*066	*048	*028	*006	982	956
15		.79	.80	.81	.83	.84	.84	.85	.86	.86	.86	.86	.86	.86	.85	.85	.84	.83	.82	.80	.79	.77	.75	.73	.71
		*058	*075	*090	*103	*114	*123	*131	*136	*139	*140	*139	*137	*133	*127	*119	*109	*098	*084	*066	*048	*028	*005	981	955
30		.78	.80	.81	.82	.83	.84	.85	.85	.86	.86	.86	.86	.85	.85	.84	.83	.83	.81	.80	.78	.77	.75	.73	.71
		*052	*069	*084	*097	*108	*118	*126	*131	*134	*136	*135	*133	*129	*123	*116	*106	*095	*081	*062	*044	*024	*001	977	950
45		.78	.79	.80	.81	.82	.83	.84	.85	.85	.85	.85	.85	.85	.84	.84	.83	.82	.81	.79	.78	.75	.74	.72	.70
		*043	*061	*076	*089	*100	*109	*118	*123	*127	*128	*128	*126	*122	*117	*109	*100	*088	*075	*055	*037	*017	994	969	942
1300		.77	.78	.79	.81	.82	.82	.83	.84	.84	.84	.84	.84	.84	.84	.83	.82	.81	.80	.79	.77	.75	.74	.71	.69
		*031	*049	*064	*077	*088	*098	*107	*112	*116	*118	*118	*116	*113	*107	*100	*090	*079	*065	*046	*027	*006	983	958	930
15		.76	.77	.78	.80	.81	.81	.82	.83	.83	.83	.83	.83	.83	.83	.82	.81	.80	.79	.78	.76	.74	.72	.70	.68
		*016	*033	*049	*062	*074	*084	*093	*098	*102	*104	*105	*103	*100	*094	*087	*078	*066	*052	*033	*014	993	969	944	916
30		.74	.76	.77	.78	.79	.80	.81	.82	.82	.82	.82	.82	.82	.82	.81	.80	.79	.78	.76	.75	.73	.71	.69	.67
		998	*015	*031	*044	*056	*066	*076	*082	*086	*088	*089	*087	*084	*079	*071	*062	*050	*036	*017	998	976	952	926	898
45		.73	.74	.75	.77	.78	.79	.79	.80	.80	.81	.81	.81	.81	.80	.80	.79	.78	.77	.75	.73	.72	.70	.68	.65
		977	994	*010	*024	*036	*046	*056	*062	*067	*069	*070	*069	*066	*060	*053	*043	*032	*018	998	978	957	932	906	877
1400		.71	.72	.74	.75	.76	.77	.78	.78	.79	.79	.79	.79	.79	.79	.78	.77	.76	.75	.73	.72	.70	.68	.66	.63
		953	970	986	*000	*013	*023	*033	*040	*045	*047	*048	*047	*044	*039	*032	*022	*010	996	976	956	934	909	882	853
15		.69	.70	.72	.73	.74	.75	.76	.76	.77	.77	.77	.77	.77	.77	.76	.75	.74	.73	.72	.70	.68	.66	.64	.62
		926	944	960	974	987	997	*008	*015	*020	*023	*024	*023	*020	*015	*008	998	986	972	951	931	909	884	856	826
30		.67	.68	.70	.71	.72	.73	.74	.74	.75	.75	.75	.75	.75	.75	.74	.73	.72	.71	.69	.68	.66	.64	.62	.59
		896	914	931	945	958	969	980	987	993	996	997	996	994	988	981	971	959	945	924	903	880	855	827	797
45		.64	.66	.67	.68	.70	.71	.72	.72	.73	.73	.73	.73	.73	.72	.72	.71	.70	.69	.67	.66	.64	.62	.59	.57
		864	882	899	914	927	939	950	957	963	966	968	967	964	959	952	942	930	915	894	873	850	824	795	764

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500	.62	.63	.65	.66	.67	.68	.69	.70	.70	.71	.71	.71	.71	.70	.70	.69	.68	.66	.65	.63	.61	.59	.57	.54
	829	848	865	880	894	906	917	925	931	935	936	936	933	928	921	911	898	883	861	840	816	790	761	730
15	.59	.60	.62	.63	.64	.65	.66	.67	.68	.68	.68	.68	.68	.68	.67	.66	.65	.64	.62	.60	.59	.56	.54	.52
	793	812	829	844	858	871	883	891	897	901	902	902	899	894	887	877	864	849	826	805	781	754	724	692
30	.56	.58	.59	.60	.62	.63	.64	.64	.65	.65	.65	.65	.65	.65	.64	.63	.62	.61	.59	.58	.56	.54	.51	.49
	754	773	791	807	821	833	846	854	860	865	867	866	864	859	851	841	828	812	789	768	743	716	686	653
45	.53	.55	.56	.57	.59	.60	.61	.61	.62	.62	.63	.63	.62	.62	.61	.61	.60	.58	.56	.55	.53	.51	.48	.46
	713	732	750	767	781	794	807	816	822	827	829	829	826	821	813	803	790	773	750	728	703	675	645	612
1600	.50	.51	.53	.54	.56	.57	.58	.58	.59	.59	.60	.60	.59	.59	.58	.58	.57	.55	.53	.52	.50	.47	.45	.42
	670	690	709	725	740	754	767	776	783	787	789	789	787	781	774	763	749	733	710	687	661	633	602	568
15	.47	.48	.50	.51	.52	.53	.55	.55	.56	.56	.57	.57	.56	.56	.55	.54	.53	.52	.50	.48	.46	.44	.42	.39
	626	646	665	682	698	711	725	734	741	746	748	748	746	740	732	722	708	691	667	644	618	589	558	524
30	.43	.45	.46	.48	.49	.50	.51	.52	.53	.53	.53	.53	.53	.53	.52	.51	.50	.49	.47	.45	.43	.41	.38	.36
	580	601	620	638	654	668	682	691	699	704	706	706	703	698	690	679	665	648	623	600	573	544	512	477
45	.40	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50	.50	.49	.49	.48	.47	.45	.43	.42	.39	.37	.35	.32
	533	555	574	592	609	623	637	647	655	660	662	662	660	654	646	635	620	603	578	554	527	497	464	429
1700	.36	.38	.39	.41	.42	.43	.45	.45	.46	.46	.47	.47	.47	.46	.45	.44	.43	.42	.40	.38	.36	.34	.31	.28
	485	507	527	546	562	577	592	602	610	615	618	618	615	610	601	589	575	557	532	507	479	449	416	381
15	.33	.34	.36	.37	.39	.40	.41	.42	.43	.43	.43	.43	.43	.43	.42	.41	.40	.38	.36	.34	.32	.30	.27	.25
	437	459	480	499	516	531	546	556	564	570	572	572	570	564	555	543	528	510	484	459	431	400	367	331
30	.29	.31	.32	.34	.35	.36	.38	.38	.39	.40	.40	.40	.40	.39	.38	.37	.36	.35	.33	.31	.29	.26	.24	.21
	388	410	431	451	468	484	499	510	518	524	526	526	524	518	509	496	481	463	436	411	382	351	317	281
45	.25	.27	.29	.30	.32	.33	.34	.35	.36	.36	.36	.36	.36	.36	.35	.34	.33	.31	.29	.27	.25	.23	.20	.17
	338	361	383	402	420	436	452	463	471	477	480	480	477	471	462	449	433	415	388	362	333	301	267	230

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1800		.21	.23	.25	.27	.28	.29	.31	.31	.32	.33	.33	.33	.33	.32	.31	.30	.29	.28	.26	.23	.21	.19	.16	.13
		288	312	334	354	372	389	405	416	425	430	433	433	430	424	414	402	386	366	339	313	283	251	216	179
15		.18	.20	.21	.23	.24	.26	.27	.28	.29	.29	.29	.29	.29	.28	.28	.27	.25	.24	.22	.20	.18	.15	.12	.10
		239	263	285	306	324	341	356	369	378	384	386	386	383	377	367	354	338	318	290	263	233	201	166	128
30		.14	.16	.18	.19	.21	.22	.23	.24	.25	.25	.26	.26	.25	.25	.24	.23	.22	.20	.18	.16	.14	.11	.09	.06
		189	214	237	258	277	294	311	322	331	337	340	340	336	330	320	306	290	270	241	214	184	151	115	077
45		.10	.12	.14	.16	.17	.19	.20	.21	.22	.22	.22	.22	.22	.21	.21	.20	.18	.17	.15	.12	.10	.08	.05	.02
		140	165	189	210	230	247	264	276	285	291	294	293	290	283	273	259	242	222	193	165	135	101	065	027
1900		.07	.09	.11	.12	.14	.15	.16	.17	.18	.19	.19	.19	.18	.18	.17	.16	.15	.13	.11	.09	.06	.04	.01	.00
		092	117	141	163	183	201	218	230	239	245	248	248	244	237	226	212	195	174	145	117	086	052	016	000
15		.03	.05	.07	.09	.10	.12	.13	.14	.15	.15	.15	.15	.15	.15	.14	.13	.11	.10	.07	.05	.03	.00	.00	.00
		044	070	095	117	137	155	173	185	194	200	203	203	199	192	181	166	149	128	098	069	038	004	000	000
30		.00	.02	.04	.05	.07	.08	.10	.11	.11	.12	.12	.12	.12	.11	.10	.09	.08	.06	.04	.02	.00	.00	.00	.00
		000	025	049	072	093	111	129	141	150	156	159	159	155	147	136	121	103	082	051	023	000	000	000	000
45		.00	.00	.00	.02	.04	.05	.07	.07	.08	.09	.09	.09	.08	.08	.07	.06	.04	.03	.01	.00	.00	.00	.00	.00
		000	000	005	028	049	068	086	098	108	114	116	116	112	104	092	077	059	037	006	000	000	000	000	000
2000		.00	.00	.00	.00	.01	.02	.03	.04	.05	.06	.06	.06	.05	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	007	026	045	057	066	072	075	074	070	062	050	035	016	000	000	000	000	000	000	000
15		.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.03	.03	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	005	017	027	033	035	034	029	021	009	000	000	000	000	000	000	000	000	000
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 54 N TABLE B-1 SOLAR PARAMETERS COS Z
x0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	038	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	089	060	030	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	141	112	082	052	021	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.12	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	192	164	134	104	073	042	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.16	.14	.12	.09	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	243	215	186	156	125	094	062	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.22	.20	.18	.15	.13	.11	.08	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	294	266	237	207	177	145	113	081	048	014	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.26	.23	.21	.19	.17	.14	.12	.10	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	344	316	287	258	227	196	164	131	098	065	031	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.29	.27	.25	.23	.20	.18	.16	.13	.11	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	393	366	337	307	277	245	213	180	147	114	080	046	007	000	000	000	000	000	000	000	000	000	000	000
30	.33	.31	.28	.26	.24	.22	.19	.17	.14	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	441	414	385	356	325	294	261	229	195	161	127	094	054	022	000	000	000	000	000	000	000	000	000	000
45	.36	.34	.32	.30	.27	.25	.23	.20	.18	.15	.13	.10	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	488	461	432	403	372	341	308	275	241	207	173	139	099	067	036	007	000	000	000	000	000	000	000	000

SEP-DEC 54 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.40	.37	.35	.33	.31	.28	.26	.23	.21	.18	.16	.13	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00
	533	506	478	448	417	386	353	320	286	252	217	183	143	111	080	050	023	000	000	000	000	000	000	000
15	.43	.41	.38	.36	.34	.31	.29	.26	.24	.21	.19	.16	.13	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00
	577	550	521	492	461	429	396	363	329	294	260	225	185	152	121	092	065	040	019	000	000	000	000	000
30	.46	.44	.42	.39	.37	.34	.32	.29	.27	.24	.22	.19	.16	.14	.12	.09	.07	.06	.04	.03	.02	.01	.01	.01
	618	591	563	533	502	470	437	404	369	335	300	265	225	192	161	131	104	080	058	040	026	016	009	007
45	.49	.47	.44	.42	.40	.37	.35	.32	.30	.27	.24	.22	.19	.16	.14	.12	.10	.08	.07	.06	.05	.04	.03	.03
	658	631	602	573	542	509	476	442	408	373	338	303	262	229	198	169	141	117	096	078	064	054	048	046
0900	.52	.49	.47	.45	.42	.40	.37	.35	.32	.30	.27	.24	.21	.19	.17	.15	.13	.11	.09	.08	.07	.06	.06	.06
	695	668	640	610	578	546	513	479	444	409	373	338	297	264	233	204	176	152	131	113	100	090	084	083
15	.54	.52	.50	.47	.45	.42	.40	.37	.35	.32	.29	.27	.24	.21	.19	.17	.15	.13	.12	.10	.09	.09	.08	.08
	730	703	674	644	613	580	547	512	477	442	406	371	330	297	265	236	209	185	164	147	133	124	119	118
30	.57	.54	.52	.50	.47	.45	.42	.40	.37	.34	.32	.29	.26	.23	.21	.19	.17	.15	.14	.13	.12	.11	.11	.11
	763	735	706	676	644	612	578	543	508	472	437	401	360	327	295	266	239	215	194	177	164	155	150	150
45	.59	.57	.54	.52	.49	.47	.44	.42	.39	.36	.34	.31	.28	.25	.23	.21	.19	.17	.16	.15	.14	.13	.13	.13
	792	765	736	705	673	640	606	571	536	500	464	428	387	354	322	293	266	242	222	205	192	184	179	180
1000	.61	.59	.56	.54	.51	.49	.46	.43	.41	.38	.35	.33	.30	.27	.25	.23	.21	.19	.18	.16	.15	.15	.15	.15
	819	792	762	732	699	666	632	596	560	524	488	453	411	378	346	317	291	267	247	230	218	210	206	207
15	.63	.60	.58	.56	.53	.50	.48	.45	.42	.40	.37	.34	.31	.29	.26	.24	.22	.21	.19	.18	.17	.17	.16	.16
	843	815	786	755	722	689	654	618	582	546	510	474	432	399	368	338	312	289	269	253	241	233	229	231
30	.64	.62	.60	.57	.54	.52	.49	.46	.44	.41	.38	.35	.32	.30	.28	.25	.24	.22	.20	.19	.18	.18	.18	.18
	864	836	806	775	742	708	673	637	601	564	528	492	450	417	386	357	330	307	288	272	260	253	250	252
45	.65	.63	.61	.58	.56	.53	.50	.48	.45	.42	.39	.36	.33	.31	.29	.27	.25	.23	.22	.20	.20	.19	.19	.19
	882	854	824	792	759	724	689	653	616	579	543	507	465	432	400	372	346	323	303	288	277	270	268	270

SEP-DEC 54 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.67	.64	.62	.59	.57	.54	.51	.48	.46	.43	.40	.37	.34	.32	.29	.27	.25	.24	.22	.21	.21	.20	.20	.20
	897	868	838	806	772	737	702	665	628	591	554	518	476	443	412	383	358	335	316	301	290	284	282	285
15	.67	.65	.63	.60	.57	.55	.52	.49	.46	.43	.41	.38	.35	.32	.30	.28	.26	.24	.23	.22	.21	.21	.21	.21
	908	879	848	816	782	747	711	674	637	600	563	526	484	451	420	392	366	344	326	311	301	295	294	297
30	.68	.68	.63	.61	.58	.55	.52	.49	.47	.44	.41	.38	.35	.33	.30	.28	.27	.25	.24	.23	.22	.21	.21	.22
	916	887	856	823	789	753	717	680	642	605	567	531	489	456	425	397	372	350	332	318	308	303	302	305
45	.68	.66	.63	.61	.58	.55	.52	.50	.47	.44	.41	.38	.35	.33	.31	.28	.27	.25	.24	.23	.22	.22	.22	.22
	921	891	860	826	792	756	719	682	644	606	569	533	491	458	427	399	374	353	335	321	312	307	307	311
1200	.68	.66	.63	.61	.58	.55	.52	.50	.47	.44	.41	.38	.35	.33	.30	.28	.27	.25	.24	.23	.22	.22	.22	.22
	922	892	860	827	791	755	718	680	642	604	567	531	489	456	425	398	373	352	335	321	313	308	308	313
15	.68	.66	.63	.61	.58	.55	.52	.49	.46	.43	.41	.38	.35	.32	.30	.28	.26	.25	.24	.23	.22	.22	.22	.22
	921	890	857	823	788	751	714	675	637	599	562	525	483	451	420	393	369	348	331	318	310	306	307	312
30	.68	.65	.63	.60	.57	.54	.52	.49	.46	.43	.40	.37	.34	.32	.29	.27	.26	.24	.23	.22	.22	.21	.21	.22
	915	884	851	817	781	744	706	667	629	590	553	516	475	442	412	385	361	341	324	312	304	301	302	307
45	.67	.65	.62	.59	.57	.54	.51	.48	.45	.42	.39	.36	.33	.31	.29	.27	.25	.23	.22	.21	.21	.21	.21	.21
	906	875	842	807	770	733	694	656	617	578	541	504	463	430	400	374	350	330	314	302	295	292	294	300
1300	.66	.64	.61	.58	.56	.53	.50	.47	.44	.41	.38	.35	.32	.30	.28	.26	.24	.23	.21	.21	.20	.20	.20	.20
	895	862	829	793	756	718	680	641	602	563	525	489	447	415	386	359	336	316	301	290	283	280	282	289
15	.65	.63	.60	.57	.54	.51	.48	.45	.42	.39	.37	.34	.31	.28	.26	.24	.23	.21	.20	.19	.19	.19	.19	.19
	879	847	812	776	739	701	662	623	583	545	507	470	429	397	368	341	319	299	284	274	267	265	268	275
30	.64	.61	.59	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.27	.25	.23	.21	.20	.19	.18	.18	.18	.18	.18
	861	828	793	757	719	680	641	601	562	523	485	449	407	376	346	321	298	280	265	255	249	247	250	258
45	.62	.60	.57	.54	.51	.48	.45	.42	.39	.36	.33	.31	.27	.25	.23	.21	.20	.18	.17	.17	.16	.16	.16	.17
	839	806	770	734	695	656	617	577	537	498	460	424	383	351	322	297	275	257	242	233	227	226	230	238

SEP-DEC 54 N TABLE 8-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.60	.58	.55	.52	.49	.46	.43	.40	.37	.34	.31	.29	.26	.23	.21	.19	.18	.16	.15	.15	.14	.14	.15	.15
	815	781	745	708	669	629	589	549	509	470	432	396	355	324	295	270	249	231	217	208	203	202	206	214
15	.58	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.23	.21	.19	.17	.16	.14	.13	.13	.12	.12	.13	.13
	787	753	717	679	640	600	559	519	479	440	402	366	325	294	266	241	220	202	189	180	175	175	180	188
30	.56	.53	.51	.48	.45	.42	.38	.35	.32	.29	.27	.24	.21	.19	.17	.15	.13	.12	.11	.11	.10	.10	.11	.11
	757	722	685	647	607	567	527	486	446	406	368	332	292	261	233	209	188	171	158	150	146	146	151	160
45	.54	.51	.48	.45	.42	.39	.36	.33	.30	.27	.24	.21	.18	.16	.14	.12	.11	.10	.09	.08	.08	.08	.08	.09
	724	689	651	613	573	532	491	450	410	371	333	297	256	226	198	174	154	137	125	117	113	114	119	128
1500	.51	.48	.45	.42	.39	.36	.33	.30	.27	.24	.21	.19	.16	.14	.12	.10	.08	.07	.06	.05	.06	.06	.06	.07
	689	653	615	576	535	494	453	412	372	332	294	258	218	188	161	137	117	101	089	081	078	079	085	095
15	.48	.46	.43	.40	.36	.33	.30	.27	.24	.21	.18	.16	.13	.11	.09	.07	.06	.04	.04	.03	.03	.03	.03	.04
	651	615	576	537	496	454	413	372	331	292	254	218	178	148	121	098	078	063	051	044	041	043	048	058
30	.45	.43	.40	.36	.33	.30	.27	.24	.21	.18	.15	.13	.10	.08	.06	.04	.03	.02	.01	.00	.00	.00	.01	.01
	611	574	535	495	454	412	371	329	288	249	211	176	136	106	080	057	037	022	011	004	002	004	010	020
45	.42	.39	.36	.33	.30	.27	.24	.21	.18	.15	.12	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	569	532	492	452	410	368	326	285	244	204	167	131	092	062	036	014	000	000	000	000	000	000	000	000
1600	.39	.36	.33	.30	.27	.24	.20	.17	.14	.11	.09	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	525	487	448	407	365	322	280	238	198	158	121	085	046	017	000	000	000	000	000	000	000	000	000	000
15	.36	.33	.30	.27	.23	.20	.17	.14	.11	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	480	441	401	360	318	275	233	191	150	110	073	038	000	000	000	000	000	000	000	000	000	000	000	000
30	.32	.29	.26	.23	.20	.17	.13	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	433	394	353	311	269	226	184	142	101	061	024	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.29	.26	.22	.19	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	385	345	304	262	219	178	134	091	051	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 54 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.25	.22	.19	.16	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	335	295	254	212	169	125	082	040	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.21	.18	.15	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	285	245	203	160	117	074	031	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	234	194	152	109	065	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	183	142	100	056	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	132	090	048	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	080	038	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 54 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	017
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	035	068
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	014	052	087	119
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.10	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	068	105	139	171
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.14	.17
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	042	082	121	158	192	224
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	.13	.16	.18	.21
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	047	097	137	175	212	245	276
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.22	.24
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	016	059	102	152	191	229	265	298	329
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.15	.18	.21	.24	.26	.28
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	072	114	157	206	246	283	318	351	381
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.19	.22	.25	.27	.30	.32
	000	000	000	000	000	000	000	000	000	000	000	000	000	041	084	127	169	211	260	299	337	371	404	433

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.16	.19	.23	.26	.29	.31	.34	.36
	000	000	000	000	000	000	000	000	000	000	000	000	055	096	139	181	224	265	314	358	389	423	455	484
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.08	.11	.14	.17	.20	.23	.27	.30	.32	.35	.37	.40
	000	000	000	000	000	000	000	000	000	000	007	045	102	150	193	235	277	319	367	405	441	475	506	534
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.12	.15	.18	.21	.24	.27	.31	.33	.36	.39	.41	.43
	000	000	000	000	000	000	000	000	000	024	060	098	162	203	245	288	330	371	418	456	492	525	555	583
45	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.08	.11	.15	.18	.22	.25	.28	.31	.34	.37	.40	.42	.45	.47
	000	000	000	000	000	000	000	013	043	076	112	150	214	255	297	339	381	421	468	506	541	574	604	631
0800	.00	.00	.00	.00	.00	.01	.02	.04	.07	.09	.12	.14	.19	.22	.25	.28	.31	.34	.38	.41	.43	.46	.48	.50
	000	000	000	000	000	007	030	062	093	126	162	200	264	306	347	389	430	471	517	554	589	621	650	677
15	.00	.00	.01	.01	.02	.04	.06	.08	.10	.12	.15	.18	.23	.26	.29	.32	.35	.38	.41	.44	.47	.49	.51	.54
	000	001	008	019	035	054	077	110	141	174	211	249	313	354	396	437	478	518	564	600	634	666	695	721
30	.03	.03	.04	.05	.06	.07	.09	.11	.13	.16	.18	.21	.26	.29	.32	.35	.38	.41	.45	.47	.50	.52	.55	.57
	041	044	052	063	079	099	123	156	187	221	257	296	360	401	442	484	524	564	609	645	678	710	738	764
45	.06	.06	.07	.08	.09	.10	.12	.14	.17	.19	.22	.24	.29	.32	.35	.38	.41	.44	.48	.50	.53	.55	.58	.60
	082	086	094	106	122	143	167	200	232	266	302	341	405	446	487	528	568	607	652	687	720	751	779	804
0900	.09	.09	.09	.10	.12	.13	.15	.17	.20	.22	.25	.27	.32	.35	.38	.41	.44	.47	.51	.53	.56	.58	.60	.62
	121	125	133	146	163	184	208	242	274	308	345	383	447	488	529	570	610	648	692	727	760	790	817	842
15	.11	.11	.12	.13	.14	.16	.18	.20	.22	.25	.28	.30	.35	.38	.41	.44	.47	.50	.53	.56	.59	.61	.63	.65
	158	162	171	184	201	222	247	282	314	348	385	424	487	528	569	609	649	687	730	765	797	826	853	877
30	.14	.14	.15	.16	.17	.18	.20	.23	.25	.28	.30	.33	.38	.41	.44	.47	.50	.53	.56	.59	.61	.63	.66	.68
	192	196	205	219	237	259	284	319	351	386	423	461	525	566	606	646	685	723	766	800	831	860	886	910
45	.16	.16	.17	.18	.19	.21	.23	.25	.27	.30	.33	.36	.40	.43	.46	.49	.52	.55	.58	.61	.63	.66	.68	.70
	223	228	237	252	270	292	318	353	386	421	458	496	560	600	640	680	719	756	798	832	862	891	917	940

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR										APR											
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
1000	.18	.18	.19	.20	.21	.23	.25	.27	.30	.32	.35	.38		.43	.46	.49	.52	.54	.57		.61	.63	.66	.68	.70	.72								
	251	256	267	281	300	323	349	385	418	453	490	528		592	632	672	711	749	786		828	861	891	919	945	968								
15	.20	.20	.21	.22	.23	.25	.27	.29	.32	.34	.37	.40		.45	.48	.51	.54	.56	.59		.62	.65	.67	.70	.72	.74								
	277	282	293	308	328	351	377	413	446	482	519	557		620	660	700	739	777	813		854	887	917	944	969	992								
30	.21	.22	.22	.24	.25	.27	.29	.31	.34	.36	.39	.42		.46	.49	.52	.55	.58	.61		.64	.67	.69	.71	.73	.75								
	299	305	316	332	352	375	402	439	472	507	545	583		648	686	725	764	801	837		878	909	939	966	991	*013								
45	.23	.23	.24	.25	.26	.28	.30	.33	.35	.38	.41	.43		.48	.51	.54	.57	.60	.62		.66	.68	.70	.73	.75	.76								
	318	325	337	353	373	397	424	461	494	530	567	606		668	708	747	785	822	857		898	929	958	985	*009	*031								
1100	.24	.24	.25	.26	.28	.29	.31	.34	.37	.39	.42	.45		.49	.52	.55	.58	.61	.64		.67	.69	.72	.74	.76	.78								
	334	341	353	370	391	415	443	480	514	549	587	625		687	726	765	803	839	875		914	945	974	*000	*024	*045								
15	.25	.25	.26	.27	.29	.31	.33	.35	.38	.40	.43	.46		.51	.53	.56	.59	.62	.65		.68	.70	.73	.75	.77	.78								
	347	354	367	384	405	430	458	496	529	565	602	641		703	742	780	817	854	888		927	958	986	*012	*036	*057								
30	.25	.26	.27	.28	.30	.31	.33	.36	.39	.41	.44	.47		.51	.54	.57	.60	.63	.65		.69	.71	.73	.75	.77	.79								
	356	364	377	395	417	442	470	508	542	577	615	653		715	753	791	828	864	898		937	967	995	*020	*044	*065								
45	.26	.26	.27	.28	.30	.32	.34	.37	.39	.42	.45	.47		.52	.55	.58	.61	.63	.66		.69	.71	.74	.76	.78	.79								
	362	370	384	402	424	450	478	516	550	586	623	662		723	761	799	836	871	905		943	973	*000	*025	*048	*069								
1200	.26	.26	.27	.29	.30	.32	.34	.37	.40	.42	.45	.48		.52	.55	.58	.61	.64	.66		.69	.71	.74	.76	.78	.79								
	364	373	388	406	428	454	483	521	556	591	629	667		728	766	803	840	874	908		946	975	*002	*027	*050	*070								
15	.26	.26	.27	.29	.30	.32	.34	.37	.40	.42	.45	.48		.52	.55	.58	.61	.64	.66		.69	.71	.74	.76	.77	.79								
	364	372	387	406	429	455	484	523	557	593	630	668		729	767	804	840	874	907		944	973	*000	*025	*047	*068								
30	.25	.26	.27	.29	.30	.32	.34	.37	.40	.42	.45	.48		.52	.55	.58	.61	.63	.66		.69	.71	.73	.75	.77	.79								
	359	368	384	403	426	453	482	521	555	591	628	666		726	764	801	836	870	903		940	968	995	*019	*042	*062								
45	.25	.26	.27	.28	.30	.32	.34	.37	.39	.42	.45	.47		.52	.55	.57	.60	.63	.65		.68	.70	.73	.75	.76	.78								
	351	361	377	397	420	447	476	515	550	586	623	660		720	757	794	829	863	895		932	960	986	*010	*033	*053								

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1300	.24	.25	.26	.27	.29	.31	.33	.36	.39	.41	.44	.47	.51	.54	.57	.59	.62	.64	.67	.70	.72	.74	.75	.77
	340	350	367	387	410	437	467	506	541	576	613	651	710	747	783	818	852	884	920	948	974	998	*020	*040
15	.23	.24	.25	.26	.28	.30	.32	.35	.38	.40	.43	.46	.50	.53	.56	.58	.61	.63	.66	.68	.70	.72	.74	.76
	326	336	353	373	397	425	455	493	528	564	601	638	697	734	769	804	837	869	905	932	958	982	*004	*024
30	.22	.23	.24	.25	.27	.29	.31	.34	.36	.39	.42	.45	.49	.52	.54	.57	.60	.62	.65	.67	.69	.71	.73	.75
	308	319	336	357	381	408	438	477	512	548	584	621	680	717	752	786	819	850	886	913	939	963	985	*005
45	.20	.21	.22	.24	.26	.28	.30	.33	.35	.38	.40	.43	.47	.50	.53	.55	.58	.60	.63	.65	.67	.69	.71	.73
	287	298	315	337	361	389	419	458	492	528	565	601	660	696	731	765	798	829	864	891	917	941	963	983
1400	.19	.19	.21	.22	.24	.26	.28	.31	.33	.36	.39	.41	.46	.48	.51	.54	.56	.59	.61	.64	.66	.68	.69	.71
	263	274	292	313	338	366	396	435	470	505	541	578	636	672	707	740	773	804	839	866	891	915	937	957
15	.17	.18	.19	.20	.22	.24	.26	.29	.32	.34	.37	.40	.44	.46	.49	.52	.54	.57	.59	.61	.63	.65	.67	.69
	236	248	266	287	312	340	370	409	444	479	515	552	609	645	679	713	745	776	810	837	863	887	909	929
30	.15	.15	.17	.18	.20	.22	.24	.27	.30	.32	.35	.37	.42	.44	.47	.49	.52	.54	.57	.59	.61	.63	.65	.67
	206	218	236	258	283	311	341	380	415	450	486	522	579	615	649	682	714	744	779	805	831	855	877	898
45	.12	.13	.14	.16	.18	.20	.22	.25	.27	.30	.32	.35	.39	.42	.44	.47	.49	.52	.54	.57	.59	.61	.62	.64
	173	185	204	226	251	279	309	348	383	418	453	489	546	581	615	648	680	710	745	772	797	821	843	864
1500	.10	.11	.12	.14	.15	.17	.20	.22	.25	.27	.30	.33	.37	.39	.42	.44	.47	.49	.52	.54	.56	.58	.60	.61
	138	150	169	191	216	244	275	314	348	383	418	454	510	545	579	612	643	673	708	735	760	784	807	827
15	.07	.08	.09	.11	.13	.15	.17	.20	.22	.25	.27	.30	.34	.37	.39	.42	.44	.46	.49	.51	.53	.55	.57	.58
	100	113	132	154	179	207	238	276	310	345	380	416	472	506	540	572	604	634	668	695	721	745	767	789
30	.04	.05	.07	.08	.10	.12	.14	.17	.19	.22	.24	.27	.31	.34	.36	.38	.41	.43	.46	.48	.50	.52	.54	.55
	060	073	092	114	140	168	198	236	270	304	340	375	431	465	498	531	562	592	626	653	679	703	726	747
45	.01	.02	.04	.05	.07	.09	.11	.14	.16	.19	.21	.24	.28	.30	.33	.35	.38	.40	.43	.45	.47	.49	.50	.52
	018	031	050	072	098	126	156	194	227	262	297	332	387	421	454	487	518	548	582	609	635	659	683	704

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1600	.00	.00	.00	.02	.04	.06	.08	.11	.13	.16	.18	.21	.25	.27	.30	.32	.34	.37	.39	.41	.43	.45	.47	.49
	000	000	006	028	054	081	111	150	183	217	252	286	341	375	408	440	471	501	536	563	589	614	637	659
15	.00	.00	.00	.00	.01	.03	.05	.07	.10	.12	.15	.17	.21	.24	.26	.28	.31	.33	.36	.38	.40	.42	.44	.45
	000	000	000	000	008	035	065	103	136	170	204	239	294	327	360	392	423	453	488	515	541	566	590	612
30	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.11	.14	.18	.20	.22	.25	.27	.29	.32	.34	.36	.38	.40	.42
	000	000	000	000	000	000	017	055	088	121	156	190	244	278	310	342	373	403	438	466	492	517	541	564
45	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.10	.14	.16	.19	.21	.23	.26	.28	.30	.33	.34	.36	.38
	000	000	000	000	000	000	000	005	038	071	105	139	193	226	259	291	322	352	387	415	442	467	492	515
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.10	.13	.15	.17	.20	.22	.25	.27	.29	.31	.33	.34
	000	000	000	000	000	000	000	000	000	020	053	087	141	174	207	238	269	300	335	363	390	416	441	464
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.09	.11	.13	.16	.18	.21	.23	.25	.27	.29	.31
	000	000	000	000	000	000	000	000	000	000	000	034	087	120	153	185	216	246	281	310	337	363	389	413
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.12	.14	.17	.19	.21	.23	.25	.27
	000	000	000	000	000	000	000	000	000	000	000	000	033	066	098	130	161	192	227	256	284	311	336	361
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.08	.10	.13	.15	.17	.19	.21	.23
	000	000	000	000	000	000	000	000	000	000	000	000	000	011	043	075	106	137	173	202	230	257	283	308
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.11	.13	.15	.17	.19
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	051	082	118	147	176	204	230	256
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.11	.13	.15
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	063	093	122	150	177	203
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	009	039	068	097	124	151
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015	044	072	099

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	048
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 52 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.01	.02	.03	.03	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	014	027	034	037	037	034	027	018	005	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.02	.03	.04	.05	.06	.06	.06	.06	.05	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	004	025	043	058	071	077	081	080	077	070	061	048	033	016	000	000	000	000	000	000	000	000
30	.00	.02	.04	.05	.07	.08	.09	.09	.09	.09	.09	.09	.08	.07	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00
	000	026	051	072	089	104	116	122	125	125	121	115	105	093	078	061	041	020	000	000	000	000	000	000
45	.04	.06	.07	.09	.10	.11	.12	.13	.13	.13	.13	.12	.11	.11	.09	.08	.07	.05	.03	.01	.00	.00	.00	.00
	048	075	099	119	137	150	162	168	171	171	167	160	151	139	124	107	088	067	039	015	000	000	000	000
0500	.07	.09	.11	.13	.14	.15	.16	.16	.16	.16	.16	.16	.15	.14	.13	.12	.10	.09	.07	.05	.03	.01	.00	.00
	098	124	148	168	185	198	210	216	218	217	214	207	198	185	171	154	135	115	088	064	039	013	000	000
15	.11	.13	.15	.16	.18	.19	.19	.20	.20	.20	.20	.19	.19	.18	.17	.15	.14	.12	.10	.09	.07	.05	.03	.01
	149	175	198	218	234	247	258	264	266	265	261	255	245	233	219	202	184	164	138	114	090	064	038	010
30	.15	.17	.19	.20	.21	.22	.23	.24	.24	.24	.23	.23	.22	.21	.20	.19	.18	.16	.14	.12	.11	.09	.07	.05
	200	226	249	268	284	296	307	312	314	313	310	303	294	282	268	252	233	214	188	165	141	116	090	063
45	.19	.21	.22	.24	.25	.26	.27	.27	.27	.27	.27	.27	.26	.25	.24	.23	.21	.20	.18	.16	.14	.13	.11	.09
	252	277	300	318	334	346	356	361	363	362	358	352	342	331	317	301	283	264	239	215	193	168	142	116
0600	.23	.25	.26	.28	.29	.30	.31	.31	.31	.31	.31	.30	.30	.29	.28	.27	.25	.24	.22	.20	.18	.17	.15	.13
	304	329	351	369	384	396	406	411	412	411	407	401	391	380	366	351	334	315	290	268	245	221	195	169
15	.27	.28	.30	.31	.33	.34	.34	.35	.35	.35	.34	.34	.33	.32	.31	.30	.29	.28	.26	.24	.22	.20	.19	.17
	356	381	402	420	434	446	455	460	461	460	456	450	441	429	416	401	384	365	341	320	297	273	248	223
30	.30	.32	.34	.35	.36	.37	.38	.38	.39	.38	.38	.38	.37	.36	.35	.34	.33	.31	.30	.28	.26	.24	.23	.21
	408	432	453	470	484	495	504	509	510	509	505	498	490	479	465	451	434	416	392	371	349	326	301	276
45	.34	.36	.38	.39	.40	.41	.42	.42	.42	.42	.42	.41	.41	.40	.39	.38	.37	.35	.33	.32	.30	.28	.26	.25
	459	483	503	520	534	544	553	557	559	557	553	547	538	527	515	500	484	466	443	422	400	378	354	329

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700	.38	.40	.41	.43	.44	.45	.45	.46	.46	.46	.45	.45	.44	.44	.43	.41	.40	.39	.37	.36	.34	.32	.30	.28
	510	533	552	569	582	593	601	605	606	605	601	595	587	576	563	549	533	516	493	472	451	429	405	381
15	.42	.43	.45	.46	.47	.48	.49	.49	.49	.49	.49	.49	.48	.47	.46	.45	.44	.43	.41	.39	.38	.36	.34	.32
	560	582	601	617	630	640	649	652	653	652	649	642	634	623	611	597	582	565	542	523	502	479	456	432
30	.45	.47	.48	.50	.51	.52	.52	.53	.53	.53	.52	.52	.51	.51	.50	.49	.47	.46	.44	.42	.41	.40	.38	.36
	608	630	649	664	677	687	695	698	699	698	694	688	680	670	658	644	629	613	591	571	551	529	506	482
45	.49	.50	.52	.53	.54	.55	.56	.56	.56	.56	.56	.55	.54	.54	.53	.52	.51	.50	.48	.46	.45	.43	.41	.40
	655	677	695	710	723	732	740	743	744	743	739	733	725	715	704	690	676	659	638	619	599	577	555	531
0800	.52	.54	.55	.56	.58	.58	.59	.59	.59	.59	.59	.59	.58	.57	.56	.55	.54	.53	.51	.50	.48	.47	.45	.43
	701	722	740	755	767	776	783	787	787	786	782	777	769	759	748	735	721	705	684	665	645	624	602	578
15	.55	.57	.58	.60	.61	.61	.62	.62	.63	.63	.62	.62	.61	.61	.60	.59	.58	.56	.55	.53	.52	.50	.48	.46
	745	765	783	797	809	818	825	828	829	828	824	819	811	802	791	778	764	748	728	710	690	669	647	624
30	.58	.60	.62	.63	.64	.64	.65	.65	.66	.66	.65	.65	.64	.64	.63	.62	.61	.60	.58	.56	.55	.53	.52	.50
	787	807	824	838	849	858	865	868	869	868	864	859	852	842	832	819	806	790	770	752	733	712	690	667
45	.61	.63	.64	.66	.67	.67	.68	.68	.68	.68	.68	.68	.67	.67	.66	.65	.64	.63	.61	.60	.58	.56	.55	.53
	826	846	863	877	888	896	903	906	907	906	902	897	890	881	871	859	845	831	811	793	774	753	732	709
0900	.64	.66	.67	.68	.69	.70	.71	.71	.71	.71	.71	.71	.70	.69	.69	.68	.67	.65	.64	.62	.61	.59	.58	.56
	864	883	899	913	924	932	939	942	943	942	939	933	927	918	908	896	883	869	849	832	813	792	771	748
15	.67	.68	.70	.71	.72	.73	.73	.74	.74	.74	.73	.73	.72	.72	.71	.70	.69	.68	.67	.65	.64	.62	.60	.58
	899	918	934	947	958	966	973	976	977	975	972	967	961	953	943	931	918	904	885	868	849	829	807	784
30	.69	.71	.72	.73	.74	.75	.76	.76	.76	.76	.76	.76	.75	.74	.74	.73	.72	.71	.69	.68	.66	.65	.63	.61
	931	950	965	978	989	997	*004	*007	*008	*007	*004	999	993	985	975	964	951	937	919	902	883	863	841	818
45	.71	.73	.74	.75	.76	.77	.78	.78	.78	.78	.78	.78	.77	.77	.76	.75	.74	.73	.71	.70	.68	.67	.65	.63
	961	979	994	*007	*018	*026	*032	*035	*036	*035	*033	*028	*022	*014	*005	994	982	968	950	933	914	894	873	850

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.73	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.74	.72	.71	.69	.67	.65
	988	*006	*021	*033	*044	*051	*058	*061	*062	*062	*059	*055	*048	*041	*032	*022	*010	996	978	961	943	923	901	878
15	.75	.77	.78	.79	.80	.81	.81	.82	.82	.82	.82	.81	.81	.81	.80	.79	.78	.77	.75	.74	.73	.71	.69	.67
	*012	*029	*044	*057	*067	*074	*081	*084	*085	*085	*083	*079	*073	*066	*057	*046	*035	*021	*003	988	968	948	927	903
30	.77	.78	.80	.81	.81	.82	.83	.83	.83	.83	.83	.83	.83	.82	.81	.81	.80	.79	.77	.76	.74	.73	.71	.69
	*033	*050	*064	*077	*087	*095	*101	*104	*106	*105	*103	*099	*094	*087	*078	*068	*057	*043	*026	*009	991	971	949	926
45	.78	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.84	.84	.84	.83	.82	.81	.80	.79	.77	.76	.74	.72	.70
	*050	*067	*082	*094	*104	*112	*118	*122	*123	*123	*121	*117	*112	*105	*097	*087	*076	*063	*045	*028	*010	990	968	945
1100	.79	.81	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.85	.85	.84	.83	.82	.81	.80	.78	.77	.75	.73	.71
	*065	*081	*096	*108	*118	*125	*132	*136	*137	*137	*136	*132	*127	*121	*113	*103	*092	*079	*061	*044	*026	*006	984	960
15	.80	.81	.83	.84	.85	.85	.86	.86	.87	.87	.87	.86	.86	.86	.85	.84	.83	.82	.81	.79	.78	.76	.74	.72
	*076	*092	*106	*118	*128	*136	*143	*147	*149	*149	*147	*144	*139	*133	*125	*116	*104	*092	*074	*057	*039	*019	996	973
30	.81	.82	.83	.84	.85	.86	.87	.87	.87	.87	.87	.87	.87	.86	.86	.85	.84	.83	.81	.80	.79	.77	.75	.73
	*083	*100	*114	*126	*136	*144	*151	*155	*157	*157	*156	*153	*148	*142	*134	*125	*114	*101	*084	*067	*048	*028	*006	981
45	.81	.82	.84	.85	.85	.86	.87	.87	.88	.88	.88	.88	.87	.87	.86	.85	.84	.83	.82	.81	.79	.77	.75	.73
	*088	*104	*118	*130	*140	*148	*155	*159	*161	*162	*161	*158	*154	*148	*141	*131	*120	*108	*090	*073	*055	*034	*011	987
1200	.81	.82	.84	.85	.86	.86	.87	.87	.88	.88	.88	.88	.87	.87	.86	.86	.85	.84	.82	.81	.79	.77	.76	.74
	*089	*105	*119	*131	*141	*149	*156	*161	*163	*164	*163	*161	*157	*151	*143	*134	*123	*111	*093	*076	*057	*036	*014	989
15	.81	.82	.83	.84	.85	.86	.87	.87	.88	.88	.88	.88	.87	.87	.86	.86	.85	.84	.82	.81	.79	.77	.76	.73
	*086	*102	*116	*128	*139	*147	*154	*159	*162	*163	*162	*160	*156	*150	*143	*134	*123	*111	*093	*076	*057	*036	*012	987
30	.80	.82	.83	.84	.85	.86	.86	.87	.87	.87	.87	.87	.87	.87	.86	.85	.84	.83	.82	.80	.79	.77	.75	.73
	*080	*096	*110	*123	*133	*141	*149	*154	*157	*158	*158	*156	*152	*147	*140	*131	*120	*107	*089	*072	*053	*031	*008	982
45	.80	.81	.82	.83	.84	.85	.86	.86	.87	.87	.87	.87	.87	.86	.86	.85	.84	.83	.81	.80	.78	.77	.75	.72
	*071	*087	*101	*114	*124	*133	*141	*146	*149	*150	*150	*148	*145	*140	*133	*124	*113	*100	*082	*065	*045	*023	*000	974

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300	.79	.80	.81	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.85	.85	.84	.83	.82	.81	.79	.77	.76	.74	.72
	*058	*074	*089	*101	*112	*121	*129	*134	*138	*140	*140	*138	*135	*130	*123	*114	*103	*090	*072	*051	*034	*012	988	962
15	.77	.79	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.84	.84	.83	.82	.81	.80	.78	.76	.75	.73	.70
	*042	*059	*073	*086	*097	*106	*114	*120	*124	*126	*126	*125	*121	*116	*109	*101	*090	*077	*058	*040	*020	998	973	946
30	.76	.77	.79	.80	.81	.82	.83	.83	.83	.84	.84	.84	.83	.83	.83	.82	.81	.80	.78	.77	.75	.73	.71	.69
	*023	*040	*054	*067	*078	*088	*097	*102	*106	*109	*109	*108	*105	*100	*093	*084	*073	*060	*041	*023	*003	980	955	927
45	.74	.76	.77	.78	.79	.80	.81	.82	.82	.82	.82	.82	.82	.82	.81	.80	.79	.78	.77	.75	.74	.72	.70	.67
	*001	*018	*032	*045	*057	*066	*076	*082	*086	*089	*089	*088	*085	*081	*074	*065	*054	*041	*022	*003	982	959	933	906
1400	.73	.74	.75	.76	.77	.78	.79	.80	.80	.80	.81	.81	.80	.80	.79	.79	.78	.77	.75	.74	.72	.70	.68	.66
	976	993	*008	*021	*033	*042	*052	*058	*063	*066	*067	*066	*063	*058	*052	*043	*031	*018	999	980	959	935	909	881
15	.70	.72	.73	.74	.75	.76	.77	.78	.78	.79	.79	.79	.78	.78	.78	.77	.76	.75	.73	.72	.70	.68	.66	.63
	948	965	980	993	*005	*016	*026	*032	*037	*040	*041	*041	*038	*033	*026	*017	*006	992	973	954	932	908	881	852
30	.68	.70	.71	.72	.73	.74	.75	.76	.76	.76	.77	.77	.76	.76	.75	.75	.74	.73	.71	.69	.68	.66	.63	.61
	917	934	949	963	975	986	997	*003	*009	*012	*013	*013	*010	*005	999	989	978	964	944	925	903	878	851	821
45	.66	.67	.68	.70	.71	.72	.73	.73	.74	.74	.74	.74	.74	.74	.73	.72	.71	.70	.69	.67	.65	.63	.61	.59
	883	900	916	930	943	954	965	972	977	981	983	982	980	975	968	959	947	933	913	893	870	845	818	788
1500	.63	.64	.66	.67	.68	.69	.70	.71	.71	.72	.72	.72	.72	.71	.71	.70	.69	.68	.66	.64	.63	.61	.58	.56
	847	864	881	895	908	919	931	938	944	948	949	949	947	942	935	926	914	899	879	854	835	810	782	751
15	.60	.62	.63	.64	.65	.66	.67	.68	.69	.69	.69	.69	.69	.69	.68	.67	.66	.65	.63	.62	.60	.58	.55	.53
	808	826	843	858	871	883	894	902	908	912	914	914	911	907	900	890	878	863	842	822	798	772	743	712
30	.57	.59	.60	.61	.62	.63	.64	.65	.66	.66	.66	.66	.66	.66	.65	.64	.63	.62	.60	.59	.57	.55	.52	.50
	767	786	803	818	832	844	856	864	870	874	876	876	874	869	862	853	840	825	803	782	759	732	703	671
45	.54	.55	.57	.58	.59	.60	.61	.62	.63	.63	.63	.63	.63	.63	.62	.61	.60	.59	.57	.55	.54	.52	.49	.47
	724	743	761	776	790	803	815	824	830	835	837	837	835	830	823	813	800	785	763	741	717	690	660	628

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
	DATE																							
1600	.51	.52	.54	.55	.56	.57	.58	.59	.60	.60	.60	.60	.60	.60	.59	.58	.57	.56	.54	.52	.50	.48	.46	.43
	680	699	717	733	747	760	773	782	789	793	796	796	793	789	781	771	758	743	720	698	673	645	615	582
15	.47	.49	.50	.51	.53	.54	.55	.56	.56	.57	.57	.57	.57	.56	.56	.55	.54	.53	.51	.49	.47	.45	.42	.40
	633	653	671	688	703	716	729	738	745	750	753	753	751	746	738	728	715	699	675	653	628	599	569	535
30	.44	.45	.47	.48	.49	.50	.52	.52	.53	.53	.54	.54	.53	.53	.52	.52	.50	.49	.47	.46	.44	.41	.39	.36
	586	606	624	641	657	670	684	693	701	706	708	709	706	701	693	683	669	653	629	606	581	552	521	487
45	.40	.42	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50	.50	.50	.49	.48	.47	.46	.44	.42	.40	.38	.35	.33
	537	557	576	594	609	623	638	647	655	660	663	663	661	655	647	637	623	606	582	558	532	503	471	437
1700	.36	.38	.39	.41	.42	.43	.44	.45	.46	.46	.47	.47	.46	.46	.45	.44	.43	.42	.40	.38	.36	.34	.31	.29
	486	507	527	545	561	575	590	600	608	613	616	616	614	609	600	589	575	558	533	509	483	453	421	386
15	.32	.34	.36	.37	.38	.40	.41	.42	.42	.43	.43	.43	.43	.42	.42	.41	.40	.38	.36	.35	.32	.30	.28	.25
	436	457	477	495	512	527	542	552	560	565	568	569	566	561	552	541	527	509	484	459	432	402	369	334
30	.29	.30	.32	.33	.35	.36	.37	.38	.39	.39	.39	.39	.39	.39	.38	.37	.36	.35	.33	.31	.29	.26	.24	.21
	384	406	426	445	462	477	493	503	511	517	520	520	518	512	504	492	477	459	433	409	381	350	317	281
45	.25	.26	.28	.30	.31	.32	.33	.34	.35	.35	.36	.36	.35	.35	.34	.33	.32	.31	.29	.27	.25	.22	.20	.17
	332	354	375	395	412	428	444	454	463	468	471	472	469	463	454	442	427	409	383	357	329	298	264	228
1800	.21	.23	.24	.26	.27	.28	.30	.31	.31	.32	.32	.32	.32	.31	.31	.30	.28	.27	.25	.23	.21	.18	.16	.13
	280	303	324	344	362	378	394	405	414	419	423	423	420	414	405	393	377	358	332	306	277	245	211	174
15	.17	.19	.20	.22	.23	.25	.26	.27	.28	.28	.28	.28	.29	.28	.27	.26	.25	.23	.21	.19	.17	.14	.12	.09
	228	251	273	293	312	328	345	356	365	370	374	374	371	365	355	343	327	308	280	254	225	193	158	121
30	.13	.15	.17	.18	.20	.21	.22	.23	.24	.24	.25	.25	.24	.24	.23	.22	.21	.19	.17	.15	.13	.11	.08	.05
	176	200	222	243	262	278	295	307	316	322	325	325	322	315	306	293	277	257	229	203	173	140	105	068
45	.09	.11	.13	.14	.16	.17	.19	.20	.20	.21	.21	.21	.21	.20	.19	.18	.17	.16	.13	.11	.09	.07	.04	.01
	125	149	172	193	212	229	247	258	267	273	276	276	273	267	257	243	227	207	178	151	121	088	053	015

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900	.06	.07	.09	.11	.12	.14	.15	.16	.17	.17	.17	.17	.17	.17	.16	.15	.13	.12	.10	.08	.05	.03	.00	.00
	074	099	122	144	164	181	199	210	219	226	229	228	225	218	208	195	178	157	128	101	070	037	001	000
15	.02	.04	.06	.07	.09	.10	.11	.12	.13	.14	.14	.14	.13	.13	.12	.11	.10	.08	.06	.04	.02	.00	.00	.00
	025	050	074	096	116	133	151	163	172	179	182	181	178	171	160	146	129	108	079	051	020	000	000	000
30	.00	.00	.02	.04	.05	.07	.08	.09	.10	.10	.10	.10	.10	.09	.09	.08	.06	.05	.02	.00	.00	.00	.00	.00
	000	002	026	049	069	087	105	117	126	133	136	135	131	124	113	099	081	060	031	002	000	000	000	000
45	.00	.00	.00	.00	.02	.03	.05	.06	.06	.07	.07	.07	.07	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00
	000	000	000	003	023	042	060	072	082	088	091	090	086	079	068	053	035	014	000	000	000	000	000	000
2000	.00	.00	.00	.00	.00	.00	.01	.02	.03	.03	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	017	029	038	045	047	047	042	035	023	009	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	003	005	005	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	SEP 5	SEP 10	SEP 15	SEP 20	SEP 25	SEP 30	OCT 5	OCT 10	OCT 15	OCT 20	OCT 25	OCT 30	NOV 5	NOV 10	NOV 15	NOV 20	NOV 25	NOV 30	DEC 5	DEC 10	DEC 15	DEC 20	DEC 25	DEC 30
	DATE																							
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	030	001	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	083	055	027	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	137	110	081	052	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.12	.10	.08	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	191	164	136	107	078	047	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.16	.14	.12	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	245	218	190	161	132	102	071	040	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.22	.20	.18	.16	.14	.11	.09	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	298	271	244	215	186	156	125	094	062	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.26	.24	.22	.20	.18	.15	.13	.11	.08	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	350	324	296	266	239	209	178	146	114	082	049	017	000	000	000	000	000	000	000	000	000	000	000	000
15	.30	.28	.26	.24	.21	.19	.17	.14	.12	.10	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	402	375	348	320	291	261	230	198	166	133	100	068	029	000	000	000	000	000	000	000	000	000	000	000
30	.34	.32	.29	.27	.25	.23	.20	.18	.16	.13	.11	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	452	426	399	371	341	311	280	248	216	183	150	117	078	047	017	000	000	000	000	000	000	000	000	000
45	.37	.35	.33	.31	.29	.26	.24	.22	.19	.17	.14	.12	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00
	501	475	448	420	390	360	329	297	264	231	198	165	126	094	064	035	008	000	000	000	000	000	000	000

SEP-DEC 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.41	.39	.37	.34	.32	.30	.27	.25	.23	.20	.18	.15	.12	.10	.08	.06	.04	.02	.01	.00	.00	.00	.00	.00
	549	523	495	467	438	407	376	344	311	278	245	211	172	140	109	080	054	029	008	003	000	000	000	000
15	.44	.42	.40	.38	.36	.33	.31	.28	.26	.23	.21	.18	.16	.13	.11	.09	.07	.05	.04	.02	.01	.01	.00	.00
	594	568	541	513	483	453	421	389	356	323	289	255	216	184	153	124	097	073	051	033	018	007	001	000
30	.47	.45	.43	.41	.39	.36	.34	.31	.29	.26	.24	.21	.19	.16	.14	.12	.10	.08	.07	.05	.04	.04	.03	.03
	638	612	585	556	527	496	464	432	399	365	331	297	257	225	194	165	138	114	093	075	060	050	043	041
45	.50	.48	.46	.44	.42	.39	.37	.34	.32	.29	.27	.24	.21	.19	.17	.15	.13	.11	.09	.08	.07	.06	.06	.06
	679	653	626	598	568	537	505	472	439	405	371	337	297	264	233	204	177	153	132	114	100	090	084	082
0900	.53	.51	.49	.47	.45	.42	.40	.37	.35	.32	.29	.27	.24	.22	.19	.17	.15	.14	.12	.11	.10	.09	.09	.09
	718	692	665	636	607	575	543	510	476	442	408	374	334	301	270	241	214	190	169	151	137	128	122	120
15	.56	.54	.52	.50	.47	.45	.42	.40	.37	.35	.32	.29	.26	.24	.22	.20	.18	.16	.14	.13	.12	.12	.11	.11
	755	729	701	673	643	611	579	545	511	477	442	408	368	335	304	275	248	224	203	185	172	163	158	157
30	.59	.56	.54	.52	.50	.47	.45	.42	.39	.37	.34	.32	.29	.26	.24	.22	.20	.18	.17	.15	.15	.14	.14	.13
	789	763	735	706	676	644	611	578	544	509	474	440	399	366	335	306	280	256	235	218	205	196	191	190
45	.61	.59	.57	.54	.52	.49	.47	.44	.42	.39	.36	.34	.31	.28	.26	.24	.22	.20	.19	.18	.17	.16	.16	.16
	820	794	766	737	706	674	641	607	573	538	503	468	427	395	364	335	308	284	264	247	235	226	221	221
1000	.63	.61	.59	.56	.54	.51	.49	.46	.43	.41	.38	.36	.33	.30	.28	.26	.24	.22	.21	.19	.19	.18	.18	.18
	848	822	794	764	733	701	668	633	599	563	528	493	453	420	389	360	334	310	290	274	261	253	249	249
15	.65	.63	.60	.58	.56	.53	.50	.48	.45	.42	.40	.37	.34	.32	.29	.27	.25	.24	.22	.21	.20	.20	.19	.19
	873	847	818	788	757	725	691	657	621	586	551	516	475	442	411	382	356	333	313	297	285	277	274	275
30	.66	.64	.62	.60	.57	.55	.52	.49	.47	.44	.41	.38	.35	.33	.31	.29	.27	.25	.24	.23	.22	.21	.21	.21
	895	868	840	810	778	745	711	676	641	605	570	534	493	461	430	401	375	352	333	317	305	298	295	297
45	.68	.66	.63	.61	.58	.56	.53	.50	.48	.45	.42	.40	.37	.34	.32	.30	.28	.26	.25	.24	.23	.22	.22	.22
	914	887	858	827	795	762	728	693	657	621	585	550	509	476	445	417	391	369	350	336	323	316	314	316

SEP-DEC 52 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.69	.67	.64	.62	.59	.57	.54	.51	.49	.46	.43	.40	.37	.35	.33	.31	.29	.27	.26	.25	.24	.23	.23	.23
	929	902	873	842	809	776	741	706	670	633	597	562	521	488	458	429	404	382	363	348	337	331	329	331
15	.70	.68	.65	.63	.60	.58	.55	.52	.49	.46	.44	.41	.33	.36	.33	.31	.29	.28	.26	.25	.25	.24	.24	.24
	941	913	884	852	820	786	751	715	679	642	606	571	529	497	466	438	413	391	373	358	348	342	341	344
30	.70	.68	.66	.63	.61	.58	.55	.52	.50	.47	.44	.41	.38	.36	.34	.32	.30	.28	.27	.26	.25	.25	.25	.25
	950	922	891	860	827	792	757	721	684	647	611	576	534	502	472	444	419	397	379	365	356	350	349	353
45	.71	.69	.66	.64	.61	.58	.55	.53	.50	.47	.44	.42	.38	.38	.34	.32	.30	.28	.27	.26	.26	.25	.25	.25
	955	926	896	864	830	795	759	723	686	649	613	577	536	504	473	446	421	400	383	369	360	355	355	359
1200	.71	.69	.66	.64	.61	.58	.55	.53	.50	.47	.44	.41	.38	.36	.34	.32	.30	.28	.27	.26	.26	.25	.25	.26
	956	927	896	864	830	794	758	721	684	647	611	575	534	502	472	444	420	399	382	369	360	356	356	361
15	.71	.68	.66	.63	.61	.58	.55	.52	.49	.46	.44	.41	.38	.36	.33	.31	.30	.28	.27	.26	.25	.25	.25	.25
	954	925	893	860	826	790	754	716	679	642	605	569	528	496	466	439	415	395	378	366	358	354	355	360
30	.70	.68	.65	.63	.60	.57	.54	.52	.49	.46	.43	.40	.37	.35	.33	.31	.29	.28	.26	.25	.25	.25	.25	.25
	949	919	887	853	818	782	745	708	670	633	596	560	519	487	458	431	407	387	371	359	352	348	349	355
45	.70	.67	.65	.62	.59	.56	.54	.51	.48	.45	.42	.39	.36	.34	.32	.30	.28	.27	.26	.25	.24	.24	.24	.25
	939	909	877	843	807	771	732	696	658	620	583	547	507	475	446	419	396	376	361	349	342	339	341	347
1300	.69	.66	.64	.61	.58	.55	.52	.50	.47	.44	.41	.38	.35	.33	.31	.29	.27	.26	.25	.24	.23	.23	.23	.24
	927	896	863	829	793	756	718	680	642	604	567	531	491	459	430	404	381	362	347	335	329	327	329	336
15	.68	.65	.62	.60	.57	.54	.51	.48	.45	.42	.40	.37	.34	.32	.29	.28	.26	.24	.23	.23	.22	.22	.22	.23
	911	879	846	811	775	738	699	661	623	585	548	512	471	440	411	385	363	344	330	319	313	311	314	321
30	.66	.64	.61	.58	.55	.52	.49	.46	.44	.41	.38	.35	.32	.30	.28	.26	.24	.23	.22	.21	.21	.21	.21	.21
	892	860	826	790	754	716	677	639	600	562	525	489	449	417	389	364	342	323	309	299	294	292	296	303
45	.65	.62	.59	.56	.54	.51	.48	.45	.42	.39	.36	.33	.30	.28	.26	.24	.23	.21	.20	.20	.19	.19	.19	.20
	869	837	802	766	729	691	652	613	574	536	499	463	423	392	364	339	317	299	286	275	271	270	274	282

SEP-DEC 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.63	.60	.57	.54	.51	.49	.46	.43	.40	.37	.34	.31	.26	.26	.24	.22	.21	.19	.18	.18	.17	.17	.18	.18
	844	810	776	739	701	663	624	584	545	507	470	434	394	363	335	311	290	272	259	250	245	245	249	258
15	.60	.58	.55	.52	.49	.46	.43	.40	.37	.34	.32	.29	.26	.24	.22	.20	.18	.17	.16	.16	.15	.15	.16	.16
	815	781	746	709	671	632	592	552	513	475	438	402	362	332	304	280	259	242	230	221	217	217	222	231
30	.58	.55	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.24	.21	.19	.18	.16	.15	.14	.13	.13	.13	.14	.14
	783	749	713	676	637	598	558	518	478	440	403	367	328	297	270	246	226	210	197	189	186	186	191	200
45	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.24	.21	.19	.17	.15	.14	.12	.12	.11	.11	.11	.11	.12
	749	714	678	640	601	561	521	480	441	402	365	330	290	260	234	210	190	174	162	155	152	153	158	168
1500	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.23	.21	.18	.16	.14	.12	.11	.10	.09	.08	.08	.08	.09	.09
	712	676	639	601	561	521	481	441	401	362	325	290	251	221	194	171	152	136	125	118	115	117	122	132
15	.50	.47	.44	.41	.38	.35	.32	.29	.26	.23	.20	.18	.15	.13	.11	.09	.08	.07	.06	.06	.05	.06	.06	.07
	672	636	599	560	520	479	439	398	358	320	283	248	209	179	153	130	111	096	085	079	076	078	084	094
30	.47	.44	.41	.38	.35	.32	.29	.26	.23	.20	.17	.15	.12	.10	.08	.06	.05	.04	.03	.03	.03	.03	.03	.04
	630	594	556	517	476	435	394	354	314	275	238	203	164	135	109	087	069	054	043	037	035	037	044	054
45	.44	.41	.38	.35	.32	.29	.25	.22	.19	.17	.14	.11	.09	.06	.05	.03	.02	.01	.00	.00	.00	.00	.00	.01
	586	549	511	471	430	389	348	307	267	228	191	157	118	089	064	042	024	010	000	000	000	000	001	012
1600	.40	.37	.34	.31	.28	.25	.22	.19	.16	.13	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	540	503	464	424	383	341	300	259	219	180	143	108	070	042	017	000	000	000	000	000	000	000	000	000
15	.37	.34	.31	.28	.24	.21	.18	.15	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	493	455	415	375	333	292	250	209	169	130	093	059	021	000	000	000	000	000	000	000	000	000	000	000
30	.33	.30	.27	.24	.21	.18	.15	.11	.09	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	443	405	365	324	282	240	199	157	117	079	042	008	000	000	000	000	000	000	000	000	000	000	000	000
45	.29	.26	.23	20	.17	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	393	354	314	272	230	188	146	105	065	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.25	.22	.19	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	341	302	261	220	177	135	093	051	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.21	.18	.15	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	289	249	208	166	123	081	038	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	235	195	154	112	069	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.14	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	182	141	100	057	014	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	128	087	045	002	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	074	033	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 52 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

| MST | DATE | | |

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
0800	.00	.00	.00	.00	.01	.02	.04	.06	.08	.11	.13	.16	.20	.23	.26	.30	.33	.36	.39	.42	.44	.47	.49	.51
	000	000	000	001	015	034	056	087	117	149	185	222	285	325	366	407	447	487	532	568	602	633	662	688
15	.02	.02	.03	.04	.05	.06	.08	.10	.12	.14	.17	.20	.24	.27	.30	.33	.36	.39	.43	.45	.48	.50	.52	.54
	030	032	038	049	064	083	105	137	167	200	235	273	335	376	417	457	497	536	581	617	650	681	709	734
30	.05	.06	.06	.07	.08	.09	.11	.13	.15	.18	.20	.23	.28	.31	.34	.37	.40	.43	.46	.49	.51	.54	.56	.58
	075	077	084	095	111	130	153	185	216	249	284	322	384	425	465	506	545	584	628	663	696	726	753	778
45	.08	.09	.09	.10	.11	.12	.14	.16	.19	.21	.24	.26	.31	.34	.37	.40	.43	.46	.49	.52	.54	.57	.59	.61
	118	120	128	140	155	175	199	231	262	295	331	369	431	471	512	552	591	629	673	707	739	769	796	820
0900	.11	.11	.12	.13	.14	.15	.17	.20	.22	.24	.27	.30	.34	.37	.40	.43	.46	.49	.52	.55	.57	.60	.62	.64
	158	161	169	182	198	218	242	275	306	340	376	413	476	516	556	596	635	672	715	749	781	810	836	860
15	.14	.14	.15	.16	.17	.18	.20	.23	.25	.27	.30	.33	.37	.40	.43	.46	.49	.52	.55	.58	.60	.63	.65	.67
	196	200	208	221	238	259	283	317	348	382	418	455	518	558	597	637	675	712	755	788	819	848	874	897
30	.16	.17	.17	.18	.20	.21	.23	.25	.28	.30	.33	.35	.40	.43	.46	.49	.52	.55	.58	.60	.63	.65	.67	.69
	231	236	245	258	275	296	321	355	387	421	457	495	557	597	636	675	713	750	792	825	855	883	908	931
45	.19	.19	.20	.21	.22	.24	.25	.28	.30	.33	.35	.38	.43	.46	.49	.52	.54	.57	.60	.63	.65	.68	.70	.71
	264	269	278	292	310	331	357	391	423	457	493	531	593	633	672	711	748	785	826	858	888	915	940	963
1000	.21	.21	.22	.23	.24	.26	.28	.30	.32	.35	.38	.40	.45	.48	.51	.54	.57	.59	.63	.65	.68	.70	.72	.74
	294	299	309	323	341	363	389	424	456	491	527	564	627	666	705	743	780	816	857	888	918	945	969	991
15	.23	.23	.24	.25	.26	.28	.30	.32	.35	.37	.40	.43	.47	.50	.53	.56	.59	.62	.65	.67	.69	.72	.74	.75
	320	326	336	351	370	392	418	454	486	521	557	595	657	696	734	772	809	844	884	915	944	971	995	*016
30	.24	.25	.26	.27	.28	.30	.32	.34	.37	.39	.42	.45	.49	.52	.55	.58	.61	.63	.66	.69	.71	.73	.75	.77
	344	349	361	376	395	418	445	480	513	548	584	622	683	722	760	798	834	869	909	939	968	994	*017	*038
45	.26	.26	.27	.28	.30	.31	.33	.36	.38	.41	.43	.46	.51	.54	.57	.59	.62	.65	.68	.70	.73	.75	.77	.78
	364	370	382	397	417	441	468	504	536	571	608	645	707	745	783	820	856	891	929	960	988	·013	*036	*057

JAN-APR 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.27	.27	.28	.29	.31	.33	.35	.37	.40	.42	.45	.48	.52	.55	.58	.61	.64	.66	.69	.72	.74	.76	.78	.80
	390	387	399	416	436	460	487	523	556	591	628	665	720	765	802	839	874	908	947	975	004	029	052	072
15	.28	.28	.29	.30	.32	.34	.36	.38	.41	.43	.46	.49	.53	.56	.59	.62	.65	.67	.70	.73	.75	.77	.79	.80
	393	401	413	430	451	475	503	540	573	608	644	682	743	781	818	854	889	923	960	990	017	042	064	084
30	.29	.29	.30	.31	.33	.35	.37	.39	.42	.44	.47	.50	.54	.57	.60	.63	.65	.68	.71	.73	.75	.77	.79	.81
	403	411	424	441	463	487	515	552	586	621	657	695	755	793	830	866	900	933	971	999	026	050	073	092
45	.29	.30	.31	.32	.33	.35	.37	.40	.42	.45	.48	.50	.55	.58	.61	.63	.66	.69	.71	.74	.76	.78	.80	.81
	409	417	431	449	471	496	524	561	595	630	666	704	764	801	838	873	908	940	977	005	032	056	078	097
1200	.29	.30	.31	.32	.34	.35	.38	.40	.43	.45	.48	.51	.55	.58	.61	.64	.66	.69	.72	.74	.76	.78	.80	.81
	412	420	435	453	475	501	529	567	600	635	672	709	769	808	842	877	911	943	979	007	033	057	079	098
15	.29	.30	.31	.32	.34	.36	.38	.40	.43	.45	.48	.51	.55	.58	.61	.64	.66	.69	.72	.74	.76	.78	.80	.81
	411	420	435	453	476	502	530	568	602	637	673	710	770	807	843	877	911	943	978	006	032	055	076	096
30	.29	.29	.31	.32	.34	.35	.37	.40	.43	.45	.48	.51	.55	.58	.61	.63	.66	.68	.71	.73	.75	.77	.79	.81
	406	416	431	450	473	499	528	566	600	635	671	708	767	804	839	874	907	938	973	001	026	049	071	090
45	.28	.29	.30	.31	.33	.35	.37	.40	.42	.45	.48	.50	.55	.57	.60	.63	.65	.68	.71	.73	.75	.77	.78	.80
	398	408	424	443	467	493	522	560	594	629	665	702	761	797	832	866	899	930	965	992	017	040	061	080
1300	.27	.28	.29	.31	.32	.34	.36	.39	.42	.44	.47	.50	.54	.57	.59	.62	.64	.67	.70	.72	.74	.76	.78	.79
	387	397	413	433	456	483	512	551	585	620	656	692	751	786	821	855	887	918	953	979	004	027	048	067
15	.26	.27	.28	.30	.31	.33	.35	.38	.41	.43	.46	.49	.53	.56	.58	.61	.63	.66	.69	.71	.73	.75	.76	.78
	372	382	399	419	443	470	499	537	571	607	642	679	737	772	807	840	872	902	937	963	988	010	031	050
30	.25	.26	.27	.28	.30	.32	.34	.37	.40	.42	.45	.47	.52	.54	.57	.60	.62	.64	.67	.69	.71	.73	.75	.76
	353	364	381	401	425	453	482	521	555	590	625	662	719	754	788	822	853	883	917	943	968	990	011	030
45	.23	.24	.25	.27	.29	.31	.33	.36	.38	.41	.43	.46	.50	.53	.55	.58	.60	.63	.65	.68	.69	.71	.73	.75
	331	342	360	381	405	432	462	500	534	569	605	641	698	733	767	799	831	861	894	920	945	967	988	007

JAN-APR 50 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.22	.22	.24	.25	.27	.29	.31	.34	.36	.39	.42	.44	.49	.51	.54	.56	.59	.61	.63	.65	.68	.69	.71	.73
	306	317	335	356	381	408	438	477	511	545	581	617	675	708	741	774	805	834	868	894	918	941	961	980
15	.20	.20	.22	.23	.25	.27	.29	.32	.34	.37	.40	.42	.46	.49	.52	.54	.56	.59	.61	.63	.65	.67	.69	.71
	278	289	307	329	354	381	411	450	483	518	553	589	645	679	713	745	776	805	838	864	888	911	932	951
30	.17	.18	.20	.21	.23	.25	.27	.30	.32	.35	.37	.40	.44	.47	.49	.52	.54	.56	.59	.61	.63	.65	.66	.68
	247	258	277	298	323	351	381	419	453	488	523	558	614	646	681	713	743	772	805	831	855	878	899	918
45	.15	.16	.17	.19	.21	.23	.25	.27	.30	.32	.35	.38	.42	.44	.47	.49	.51	.54	.56	.58	.60	.62	.64	.65
	212	225	243	265	290	318	348	386	420	454	489	524	579	613	646	677	708	737	770	795	820	842	863	883
1500	.12	.13	.15	.16	.18	.20	.22	.25	.27	.30	.32	.35	.38	.41	.44	.46	.49	.51	.53	.56	.57	.59	.61	.63
	176	188	207	229	254	282	311	350	383	417	452	487	542	575	608	639	669	698	731	757	781	804	825	845
15	.10	.11	.12	.13	.15	.17	.19	.22	.25	.27	.29	.32	.36	.39	.41	.43	.46	.48	.50	.52	.54	.56	.58	.60
	136	149	168	190	215	243	273	311	344	378	412	447	501	535	567	598	628	657	690	716	740	763	784	804
30	.07	.08	.09	.11	.12	.14	.16	.19	.22	.24	.26	.29	.33	.35	.38	.40	.43	.45	.47	.49	.51	.53	.55	.56
	094	107	126	148	174	201	231	269	302	336	370	404	458	491	524	555	585	613	646	672	696	718	741	761
45	.04	.05	.06	.07	.09	.11	.13	.16	.18	.21	.23	.26	.30	.32	.35	.37	.39	.41	.44	.46	.48	.50	.51	.53
	050	063	082	105	130	157	187	225	258	291	325	359	413	446	478	509	539	567	600	625	650	674	696	716
1600	.00	.01	.03	.04	.06	.08	.10	.13	.15	.17	.20	.22	.26	.29	.31	.33	.36	.38	.40	.42	.44	.46	.48	.50
	004	017	036	059	084	111	141	178	211	244	278	312	365	398	430	460	490	519	552	578	602	626	648	669
15	.00	.00	.00	.01	.03	.05	.07	.09	.12	.14	.16	.19	.23	.25	.27	.30	.32	.34	.37	.39	.41	.43	.44	.46
	000	000	000	011	036	063	093	130	162	195	229	262	315	348	379	410	440	469	501	528	553	576	599	620
30	.00	.00	.00	.00	.00	.01	.03	.06	.08	.10	.13	.15	.19	.21	.24	.26	.28	.30	.33	.35	.37	.39	.41	.42
	000	000	000	000	000	014	043	080	112	145	178	211	264	296	328	358	388	417	450	476	501	525	548	570
45	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.09	.11	.15	.18	.20	.22	.24	.26	.29	.31	.33	.35	.37	.38
	000	000	000	000	000	000	000	028	060	092	125	158	210	243	274	305	334	363	396	423	448	473	496	518

JAN-APR 50 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.07	.11	.14	.16	.18	.20	.23	.25	.27	.29	.31	.33	.35
	000	000	000	000	000	000	000	000	006	038	071	104	156	188	219	250	279	308	342	369	394	419	443	465
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.07	.10	.12	.14	.16	.18	.21	.23	.25	.27	.29	.31
	000	000	000	000	000	000	000	000	000	000	016	048	100	132	163	194	223	252	286	313	339	365	389	412
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.10	.12	.14	.17	.19	.21	.23	.25	.27
	000	000	000	000	000	000	000	000	000	000	000	000	043	075	106	137	167	196	230	257	284	309	334	357
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.10	.13	.15	.17	.19	.21	.22
	000	000	000	000	000	000	000	000	000	000	000	000	000	017	048	079	109	139	173	201	228	254	279	303
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.09	.11	.13	.15	.17	.18
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	051	081	116	144	171	198	223	248
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.10	.12	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	023	058	087	115	142	168	193
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	001	030	058	086	113	138
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003	031	058	084
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	031
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	006	009	009	006	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.01	.02	.03	.04	.04	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	001	018	033	045	051	054	054	050	044	034	022	007	000	000	000	000	000	000	000	000	000
30	.00	.00	.02	.04	.05	.06	.07	.07	.08	.08	.07	.07	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00
	000	005	029	049	066	080	092	098	101	101	097	090	081	068	054	037	017	000	000	000	000	000	000	000
45	.02	.04	.06	.07	.09	.10	.11	.11	.11	.11	.11	.10	.10	.09	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00
	029	055	079	099	116	129	141	146	149	148	145	138	128	116	102	085	066	046	019	000	000	000	000	000
0500	.06	.08	.10	.11	.13	.14	.14	.15	.15	.15	.15	.14	.13	.13	.11	.10	.09	.07	.05	.04	.02	.00	.00	.00
	081	107	130	150	166	179	190	196	198	197	193	187	177	165	151	134	116	096	070	046	022	000	000	000
15	.10	.12	.14	.15	.16	.17	.18	.19	.19	.19	.18	.18	.17	.16	.15	.14	.13	.11	.09	.07	.05	.04	.02	.00
	134	160	182	202	218	230	241	246	248	247	243	236	227	215	201	185	167	147	121	099	075	050	025	000
30	.14	.16	.18	.19	.20	.21	.22	.22	.23	.22	.22	.22	.21	.20	.19	.18	.16	.15	.13	.11	.10	.08	.06	.04
	188	213	235	254	269	282	292	297	299	297	293	287	277	266	252	236	218	199	174	152	128	104	079	053
45	.18	.20	.22	.23	.24	.25	.26	.26	.26	.26	.26	.26	.25	.24	.23	.22	.20	.19	.17	.15	.14	.12	.10	.08
	242	267	288	307	322	333	343	348	350	348	344	337	328	317	303	288	270	251	227	205	182	159	134	109
0600	.22	.24	.26	.27	.28	.29	.30	.30	.30	.30	.30	.29	.29	.28	.27	.26	.24	.23	.21	.19	.18	.16	.14	.12
	297	321	342	360	374	386	395	399	401	399	395	389	379	368	355	340	323	304	280	259	237	214	189	165
15	.26	.28	.30	.31	.32	.33	.34	.34	.34	.34	.34	.33	.33	.32	.31	.30	.28	.27	.25	.24	.22	.20	.18	.16
	351	375	395	413	427	438	447	451	452	450	446	440	431	420	407	392	375	357	334	313	291	268	245	220
30	.30	.32	.34	.35	.36	.37	.38	.38	.38	.38	.38	.37	.36	.36	.35	.34	.32	.31	.29	.28	.26	.24	.22	.21
	405	428	448	465	479	489	498	502	503	501	497	491	482	471	458	444	428	410	387	367	345	323	300	276
45	.34	.36	.37	.39	.40	.41	.41	.42	.42	.42	.41	.41	.40	.39	.39	.37	.36	.35	.33	.32	.30	.28	.26	.25
	459	481	501	517	530	541	549	553	554	552	548	541	533	522	510	495	480	462	440	420	399	377	355	331

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700	.38	.40	.41	.43	.44	.44	.45	.45	.46	.45	.45	.45	.44	.43	.42	.41	.40	.39	.37	.36	.34	.32	.31	.29
	511	534	553	568	581	591	599	603	603	602	598	591	583	573	560	546	531	514	492	473	453	431	409	385
15	.42	.44	.45	.46	.47	.48	.49	.49	.49	.49	.49	.48	.48	.47	.46	.45	.44	.43	.41	.39	.38	.36	.34	.33
	563	585	603	619	631	641	648	652	653	651	647	641	632	622	610	597	582	565	544	525	505	484	462	439
30	.46	.47	.49	.50	.51	.52	.52	.53	.53	.53	.53	.52	.51	.51	.50	.49	.48	.46	.45	.43	.42	.40	.38	.37
	614	635	653	668	680	689	697	700	701	699	695	689	681	671	658	646	631	615	595	575	556	536	514	491
45	.49	.51	.52	.54	.55	.55	.56	.56	.56	.56	.56	.56	.55	.54	.53	.52	.51	.50	.48	.47	.45	.44	.42	.40
	663	684	701	716	728	737	744	747	747	746	742	736	728	718	707	694	680	664	644	626	606	586	564	542
0800	.53	.54	.56	.57	.58	.59	.59	.60	.60	.60	.59	.59	.58	.58	.57	.56	.55	.54	.52	.51	.49	.47	.46	.44
	711	731	748	762	774	782	789	792	792	791	787	781	773	764	753	741	727	711	692	674	655	635	614	591
15	.56	.58	.59	.60	.61	.62	.63	.63	.63	.63	.63	.62	.62	.61	.60	.59	.58	.57	.55	.54	.53	.51	.49	.48
	756	776	793	807	818	826	833	836	836	834	831	825	818	808	798	786	772	757	738	720	702	682	661	639
30	.60	.61	.62	.64	.64	.65	.66	.66	.66	.66	.66	.66	.65	.64	.63	.63	.62	.60	.59	.57	.56	.54	.53	.51
	800	819	836	849	860	868	874	877	878	876	873	867	860	851	841	829	816	801	782	765	746	727	706	684
45	.63	.64	.65	.67	.68	.68	.69	.69	.69	.69	.69	.69	.68	.67	.67	.66	.65	.63	.62	.61	.59	.58	.56	.54
	842	860	876	889	900	908	914	917	917	916	912	907	900	892	881	870	857	843	824	807	789	770	749	727
0900	.65	.67	.68	.69	.70	.71	.72	.72	.72	.72	.72	.71	.71	.70	.69	.69	.68	.66	.65	.64	.62	.61	.59	.57
	881	899	915	928	938	945	952	954	955	953	950	945	938	930	920	909	896	883	864	845	830	811	790	768
15	.68	.70	.71	.72	.73	.74	.74	.75	.75	.75	.74	.74	.74	.73	.72	.71	.70	.69	.68	.66	.65	.63	.62	.60
	918	935	951	963	973	981	987	989	990	989	985	981	974	966	957	946	933	920	902	885	868	849	828	807
30	.71	.72	.73	.75	.75	.76	.77	.77	.77	.77	.77	.77	.76	.76	.75	.74	.73	.72	.70	.69	.68	.66	.64	.63
	951	969	984	996	*006	*013	*019	*022	*022	*021	*018	*014	*007	*000	990	980	968	955	937	921	903	884	864	842
45	.73	.74	.76	.77	.78	.78	.79	.79	.79	.79	.79	.79	.78	.78	.77	.76	.75	.74	.73	.72	.70	.69	.67	.65
	982	*000	*014	*026	*036	*043	*049	*052	*052	*051	*048	*044	*038	*031	*022	*011	*000	987	969	953	936	917	897	875

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.75	.77	.78	.79	.80	.80	.81	.81	.81	.81	.81	.81	.81	.80	.79	.78	.78	.76	.75	.74	.72	.71	.69	.67
	*010	*027	*041	*053	*063	*070	*076	*079	*079	*078	*076	*072	*066	*059	*050	*040	*029	*016	999	983	965	947	926	904
15	.77	.78	.80	.81	.82	.82	.83	.83	.83	.83	.83	.83	.82	.82	.81	.80	.80	.78	.77	.76	.74	.73	.71	.69
	*035	*052	*066	*077	*087	*094	*100	*103	*104	*103	*100	*096	*091	*084	*076	*066	*055	*042	*025	*009	992	973	953	931
30	.79	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.84	.84	.84	.83	.82	.81	.80	.79	.78	.76	.75	.73	.71
	*057	*073	*087	*099	*108	*115	*121	*124	*125	*124	*122	*118	*113	*106	*098	*089	*078	*065	*048	*033	*015	997	976	954
45	.80	.81	.83	.84	.84	.85	.86	.86	.86	.86	.86	.86	.86	.85	.84	.84	.83	.82	.80	.79	.78	.76	.74	.72
	*075	*091	*105	*116	*126	*133	*139	*142	*143	*143	*141	*137	*132	*126	*118	*108	*098	*085	*069	*053	*036	*017	996	974
1100	.81	.82	.84	.85	.85	.86	.87	.87	.87	.87	.87	.87	.87	.86	.86	.85	.84	.83	.82	.80	.79	.77	.76	.74
	*090	*106	*120	*131	*140	*147	*153	*156	*158	*158	*156	*153	*148	*142	*134	*125	*114	*102	*085	*070	*052	*033	*013	990
15	.82	.83	.84	.85	.86	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86	.85	.84	.83	.81	.80	.78	.77	.75
	*102	*118	*131	*142	*151	*158	*165	*168	*170	*170	*168	*165	*160	*154	*147	*138	*128	*116	*099	*083	*065	*047	*026	*003
30	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.88	.88	.87	.87	.86	.85	.83	.82	.81	.79	.77	.75
	*110	*125	*139	*150	*159	*166	*173	*176	*178	*178	*177	*174	*170	*164	*157	*148	*138	*126	*109	*093	*076	*057	*035	*012
45	.83	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.83	.81	.79	.78	.76
	*115	*130	*143	*154	*163	*171	*177	*181	*183	*183	*182	*180	*176	*170	*163	*154	*144	*132	*116	*100	*082	*063	*041	*018
1200	.83	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.89	.89	.88	.87	.87	.86	.84	.83	.81	.80	.78	.76
	*116	*131	*144	*155	*164	*172	*179	*182	*185	*185	*185	*182	*178	*173	*166	*158	*147	*136	*119	*103	*085	*065	*044	*020
15	.83	.84	.85	.86	.87	.88	.89	.89	.89	.89	.89	.89	.89	.89	.88	.87	.86	.85	.84	.83	.81	.80	.78	.76
	*113	*128	*141	*152	*162	*170	*177	*181	*183	*184	*183	*181	*178	*173	*166	*157	*147	*135	*119	*102	*084	*064	*042	*018
30	.82	.84	.85	.86	.87	.87	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.82	.81	.79	.77	.75
	*107	*122	*135	*146	*156	*164	*171	*175	*178	*179	*179	*177	*174	*169	*162	*154	*144	*132	*115	*098	*080	*060	*037	*013
45	.82	.83	.84	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86	.85	.83	.82	.80	.79	.77	.75
	*097	*112	*125	*137	*147	*155	*162	*167	*170	*171	*171	*169	*166	*161	*155	*147	*136	*124	*107	*091	*072	*052	*029	*004

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300		.81	.82	.83	.84	.85	.86	.87	.87	.87	.88	.88	.88	.87	.87	.86	.86	.85	.84	.82	.81	.80	.78	.76	.74
		*084	*099	*112	*124	*134	*142	*150	*155	*158	*160	*160	*159	*156	*151	*144	*136	*126	*114	*097	*080	*061	*040	*017	992
15		.79	.81	.82	.83	.84	.85	.85	.86	.86	.86	.87	.86	.86	.86	.85	.85	.84	.83	.81	.80	.78	.77	.75	.73
		*067	*083	*096	*108	*118	*127	*135	*140	*143	*145	*146	*144	*142	*137	*131	*122	*112	*100	*083	*065	*046	*025	*001	975
30		.78	.79	.80	.81	.82	.83	.84	.85	.85	.85	.85	.85	.85	.85	.84	.83	.83	.82	.80	.78	.77	.75	.73	.71
		*047	*063	*076	*089	*099	*108	*116	*122	*125	*128	*128	*127	*124	*120	*114	*105	*095	*083	*065	*048	*028	*006	982	956
45		.76	.77	.79	.80	.81	.82	.82	.83	.83	.84	.84	.84	.83	.83	.83	.82	.81	.80	.79	.77	.75	.74	.72	.69
		*024	*040	*054	*066	*077	*086	*094	*100	*104	*107	*108	*107	*104	*100	*093	*085	*075	*062	*044	*027	*007	985	960	933
1400		.74	.76	.77	.78	.79	.80	.81	.81	.81	.82	.82	.82	.82	.81	.81	.80	.79	.78	.77	.75	.74	.72	.70	.68
		998	*014	*028	*040	*051	*061	*070	*076	*080	*083	*084	*083	*081	*076	*070	*062	*051	*039	*020	*002	982	959	934	907
15		.72	.73	.75	.76	.77	.78	.78	.79	.79	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.73	.72	.70	.68	.65
		968	984	999	*012	*023	*033	*042	*048	*053	*056	*057	*057	*055	*050	*044	*036	*025	*012	993	975	954	931	906	878
30		.70	.71	.72	.73	.74	.75	.76	.77	.77	.77	.78	.78	.77	.77	.77	.76	.75	.74	.72	.71	.69	.67	.65	.63
		936	952	967	980	992	*002	*012	*018	*023	*026	*028	*028	*025	*021	*015	*006	996	982	963	945	924	900	874	845
45		.67	.68	.70	.71	.72	.73	.74	.74	.75	.75	.75	.75	.75	.75	.74	.74	.73	.72	.70	.69	.67	.65	.63	.60
		901	917	932	946	958	968	979	986	991	994	996	996	994	999	983	974	963	950	931	911	890	866	839	810
1500		.64	.66	.67	.68	.69	.70	.71	.72	.72	.72	.73	.73	.72	.72	.72	.71	.70	.69	.67	.65	.64	.62	.60	.57
		863	880	895	909	921	932	943	950	956	960	961	961	959	955	949	940	929	915	895	876	853	829	802	772
15		.61	.63	.64	.65	.66	.67	.68	.69	.69	.70	.70	.70	.70	.69	.69	.68	.67	.66	.64	.63	.61	.59	.57	.54
		823	840	856	870	883	894	905	913	918	922	924	925	922	918	912	903	891	877	857	837	815	789	762	731
30		.58	.59	.61	.62	.63	.64	.65	.66	.66	.67	.67	.67	.67	.66	.66	.65	.64	.63	.61	.60	.58	.56	.54	.51
		780	798	814	828	842	853	865	873	879	883	885	885	883	879	873	863	852	837	817	796	773	747	719	688
45		.55	.56	.58	.59	.60	.61	.62	.63	.63	.64	.64	.64	.64	.63	.63	.62	.61	.60	.58	.57	.55	.53	.50	.48
		735	753	770	785	798	810	823	831	837	842	844	844	842	838	831	822	810	795	774	753	730	703	674	643

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1600	.51	.53	.54	.55	.57	.58	.59	.59	.60	.60	.61	.61	.60	.60	.60	.59	.58	.57	.55	.53	.51	.49	.47	.44
	689	707	724	739	753	766	778	787	794	798	801	801	799	795	788	778	766	751	729	703	684	657	628	596
15	.48	.49	.51	.52	.53	.54	.55	.56	.56	.57	.57	.57	.57	.57	.56	.55	.54	.53	.51	.50	.48	.46	.43	.41
	640	659	677	692	707	720	733	742	748	753	756	756	754	750	743	733	721	705	683	661	636	609	579	547
30	.44	.45	.47	.48	.49	.50	.52	.52	.53	.53	.54	.54	.54	.53	.53	.52	.51	.50	.48	.46	.44	.42	.39	.37
	590	610	628	644	659	672	685	695	702	707	710	710	708	704	696	686	673	658	635	612	587	559	529	496
45	.40	.42	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50	.50	.50	.49	.48	.47	.46	.44	.42	.40	.38	.36	.33
	539	559	577	594	609	623	637	646	654	659	662	662	660	656	648	638	625	609	585	562	537	508	477	444
1700	.36	.38	.39	.41	.42	.43	.44	.45	.46	.46	.46	.46	.46	.46	.45	.44	.43	.42	.40	.38	.36	.34	.32	.29
	487	507	526	543	559	573	587	597	605	610	613	614	612	607	599	589	575	558	534	511	485	456	424	390
15	.32	.34	.35	.37	.38	.39	.40	.41	.42	.42	.43	.43	.42	.42	.41	.41	.40	.38	.36	.34	.32	.30	.28	.25
	434	454	474	491	508	522	537	547	555	560	564	564	562	557	549	538	524	507	483	459	432	403	371	336
30	.28	.30	.31	.33	.34	.35	.37	.37	.38	.39	.39	.39	.39	.38	.38	.37	.36	.34	.32	.31	.28	.26	.24	.21
	380	401	421	439	456	471	486	496	504	510	513	514	511	506	498	487	473	455	430	406	379	349	316	281
45	.24	.26	.27	.29	.30	.31	.33	.34	.34	.35	.35	.35	.35	.34	.34	.33	.32	.30	.28	.26	.24	.22	.20	.17
	326	347	368	386	403	419	434	445	453	459	462	463	460	455	447	435	421	403	377	352	325	294	261	226
1800	.20	.22	.24	.25	.26	.28	.29	.30	.30	.31	.31	.31	.31	.31	.30	.29	.28	.26	.24	.22	.20	.18	.15	.13
	271	293	314	334	351	367	383	394	402	408	411	412	409	404	395	383	368	350	324	299	270	239	206	170
15	.16	.18	.20	.21	.22	.24	.25	.26	.27	.27	.27	.27	.27	.27	.26	.25	.24	.22	.20	.18	.16	.14	.11	.09
	217	240	261	281	299	315	331	342	351	357	360	361	358	352	343	331	316	297	270	245	216	185	150	114
30	.12	.14	.16	.17	.19	.20	.21	.22	.23	.23	.23	.23	.23	.23	.22	.21	.20	.18	.16	.14	.12	.10	.07	.04
	163	186	208	228	246	263	280	291	300	306	309	310	307	301	292	279	263	244	217	191	162	130	095	058
45	.08	.10	.12	.13	.15	.16	.17	.18	.19	.19	.20	.20	.19	.19	.18	.17	.16	.14	.12	.10	.08	.06	.03	.00
	109	133	155	176	195	212	229	240	249	255	259	259	256	250	240	227	211	192	164	137	108	075	041	003

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900	.04	.06	.08	.09	.11	.12	.13	.14	.15	.16	.16	.16	.16	.15	.14	.13	.12	.11	.08	.06	.04	.02	.00	.00
	056	081	104	125	144	161	178	190	199	206	209	209	206	199	190	176	160	140	112	085	055	022	000	000
15	.00	.02	.04	.06	.07	.08	.10	.11	.11	.12	.12	.12	.12	.11	.11	.10	.08	.07	.05	.02	.00	.00	.00	.00
	005	029	053	074	094	111	129	141	150	157	160	160	156	150	140	126	109	089	060	033	002	000	000	000
30	.00	.00	.00	.02	.03	.05	.06	.07	.08	.08	.08	.08	.08	.08	.07	.06	.05	.03	.01	.00	.00	.00	.00	.00
	000	000	003	025	045	063	081	093	102	109	112	112	108	101	091	077	059	039	010	000	000	000	000	000
45	.00	.00	.00	.00	.00	.01	.03	.04	.04	.05	.05	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	016	034	046	056	062	065	065	061	054	043	029	011	000	000	000	000	000	000	000
2000	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	001	010	017	020	019	015	008	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	078	051	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	134	107	080	053	024	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.12	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	190	164	137	110	082	053	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.16	.14	.12	.10	.08	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	246	220	194	166	138	110	080	050	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.22	.20	.18	.16	.14	.12	.10	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	302	276	250	223	195	166	136	106	075	044	013	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.26	.25	.23	.20	.18	.16	.14	.12	.10	.07	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	356	331	305	278	250	221	192	161	130	099	068	036	000	000	000	000	000	000	000	000	000	000	000	000
15	.30	.29	.27	.24	.22	.20	.18	.16	.13	.11	.09	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	410	385	359	332	304	275	246	215	184	153	121	089	051	021	000	000	000	000	000	000	000	000	000	000
30	.34	.32	.30	.28	.26	.24	.22	.20	.17	.15	.13	.10	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	463	438	412	385	357	328	298	268	237	205	173	141	103	072	042	014	000	000	000	000	000	000	000	000
45	.38	.36	.34	.32	.30	.28	.26	.23	.21	.19	.16	.14	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00
	514	489	463	436	408	379	349	319	287	255	223	191	153	121	091	063	037	012	000	000	000	000	000	000

SEP-DEC 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.42	.40	.38	.36	.34	.31	.29	.27	.24	.22	.20	.17	.14	.12	.10	.08	.06	.04	.03	.01	.00	.00	.00	.00
	563	539	513	486	458	429	399	368	336	304	271	239	209	180	139	110	084	060	038	020	005	000	000	000
15	.45	.43	.41	.39	.37	.35	.33	.30	.28	.25	.23	.21	.18	.15	.13	.11	.09	.08	.06	.05	.04	.03	.02	.02
	611	586	560	533	505	476	446	415	383	350	318	285	246	215	184	156	129	105	084	065	051	040	033	030
30	.49	.47	.45	.43	.40	.38	.36	.33	.31	.29	.26	.24	.21	.19	.16	.14	.12	.11	.09	.08	.07	.06	.05	.05
	656	632	606	579	551	521	491	459	427	395	362	329	290	259	228	199	172	148	127	109	094	084	077	074
45	.52	.50	.48	.46	.44	.41	.39	.37	.34	.32	.29	.27	.24	.21	.19	.17	.15	.13	.12	.11	.10	.09	.08	.08
	700	675	649	622	594	564	533	502	469	436	403	370	331	299	269	240	213	189	168	150	136	126	119	117
0900	.55	.53	.51	.49	.47	.44	.42	.39	.37	.34	.32	.29	.27	.24	.22	.20	.18	.16	.15	.13	.12	.12	.11	.11
	740	716	690	662	634	604	573	541	509	475	442	409	369	337	307	278	252	228	207	189	175	165	159	157
15	.58	.56	.54	.52	.49	.47	.45	.42	.40	.37	.35	.32	.29	.27	.24	.22	.20	.19	.17	.15	.15	.14	.14	.14
	779	754	728	700	671	641	610	578	545	512	478	444	405	373	342	314	287	263	243	225	212	202	196	195
30	.60	.58	.56	.54	.52	.49	.47	.45	.42	.39	.37	.34	.31	.29	.27	.25	.23	.21	.20	.18	.17	.17	.16	.16
	814	789	763	735	706	676	644	612	579	545	511	477	438	406	375	346	320	296	276	259	245	236	231	230
45	.63	.61	.59	.56	.54	.52	.49	.47	.44	.42	.39	.37	.34	.31	.29	.27	.25	.23	.22	.21	.20	.19	.19	.19
	847	822	795	767	738	707	675	642	609	575	541	507	467	435	405	376	350	326	306	289	276	268	263	263
1000	.65	.63	.61	.59	.56	.54	.51	.49	.46	.44	.41	.38	.35	.33	.31	.29	.27	.25	.24	.22	.22	.21	.21	.21
	876	851	824	796	766	735	703	670	636	602	568	533	493	461	431	402	376	353	333	317	304	296	292	292
15	.67	.65	.63	.60	.58	.56	.53	.51	.48	.45	.43	.40	.37	.35	.32	.30	.28	.27	.25	.24	.23	.23	.22	.23
	902	877	850	821	791	760	727	694	660	625	591	557	517	484	454	426	400	377	357	341	329	321	318	318
30	.69	.67	.64	.62	.60	.57	.55	.52	.49	.47	.44	.42	.39	.36	.34	.32	.30	.28	.27	.26	.25	.24	.24	.24
	925	900	872	843	813	781	748	715	680	646	611	576	535	504	474	445	420	397	378	362	351	343	340	342
45	.70	.68	.66	.63	.61	.58	.56	.53	.51	.48	.45	.43	.40	.37	.35	.33	.31	.29	.28	.27	.26	.26	.25	.26
	945	919	891	862	831	799	766	732	697	662	627	593	552	520	490	462	437	414	395	380	369	362	359	361

SEP-DEC 50 N TABLE B-1 SOLAR PARAMETERS COS Z XC (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.71	.69	.67	.65	.62	.60	.57	.54	.52	.49	.46	.44	.41	.38	.36	.34	.32	.30	.29	.28	.27	.27	.27	.27
	961	934	906	877	846	813	780	745	710	675	640	605	565	533	503	475	450	428	409	394	384	377	375	378
15	.72	.70	.68	.65	.63	.60	.58	.55	.52	.50	.47	.44	.41	.39	.37	.35	.33	.31	.30	.29	.28	.28	.27	.28
	973	947	918	888	857	824	790	755	720	684	649	614	574	542	512	484	459	438	420	406	395	389	388	391
30	.73	.71	.68	.66	.63	.61	.58	.55	.53	.50	.47	.45	.42	.39	.37	.35	.33	.32	.30	.29	.29	.28	.28	.28
	982	955	926	896	864	830	796	761	725	690	654	619	579	547	517	490	465	444	426	413	403	398	397	400
45	.73	.71	.69	.66	.64	.61	.58	.56	.53	.50	.47	.45	.42	.39	.37	.35	.33	.32	.31	.30	.29	.28	.28	.29
	987	960	931	900	867	833	799	763	727	691	656	621	581	549	519	492	468	447	430	416	407	402	402	406
1200	.73	.71	.69	.66	.64	.61	.58	.55	.53	.50	.47	.45	.42	.39	.37	.35	.33	.32	.30	.30	.29	.29	.29	.29
	989	961	931	900	867	833	798	762	726	689	654	619	578	547	517	490	467	446	429	417	408	404	404	408
15	.73	.71	.69	.66	.63	.61	.58	.55	.52	.49	.47	.44	.41	.39	.37	.35	.33	.31	.30	.29	.29	.28	.28	.29
	987	958	928	896	863	828	793	757	720	684	648	613	573	541	512	485	462	442	425	413	405	401	402	407
30	.73	.70	.68	.65	.63	.60	.57	.54	.52	.49	.46	.43	.40	.38	.36	.34	.32	.31	.30	.29	.28	.28	.28	.28
	981	952	921	889	855	820	784	748	711	674	638	603	563	532	503	476	453	434	418	406	399	395	397	402
45	.72	.70	.67	.65	.62	.59	.56	.53	.51	.48	.45	.42	.39	.37	.35	.33	.31	.30	.29	.28	.28	.27	.27	.28
	971	942	911	878	844	808	772	735	698	661	625	590	550	519	490	464	441	422	407	396	389	386	388	394
1300	.71	.69	.66	.64	.61	.58	.55	.52	.49	.47	.44	.41	.38	.36	.34	.32	.30	.29	.28	.27	.27	.26	.27	.27
	958	928	897	863	828	792	756	719	681	644	608	573	533	502	474	448	426	407	392	382	375	373	375	382
15	.70	.67	.65	.62	.59	.57	.54	.51	.48	.45	.42	.40	.37	.35	.32	.31	.29	.28	.27	.26	.25	.25	.25	.26
	942	911	879	845	810	773	736	699	661	624	588	553	513	482	454	429	407	389	374	364	358	357	360	367
30	.68	.66	.63	.61	.58	.55	.52	.49	.46	.43	.41	.38	.35	.33	.31	.29	.27	.26	.25	.24	.24	.24	.24	.25
	921	891	858	823	787	751	713	675	638	600	564	529	489	459	431	406	385	367	353	343	338	337	340	348
45	.67	.64	.61	.59	.56	.53	.50	.47	.44	.41	.39	.36	.33	.31	.29	.27	.26	.24	.23	.23	.22	.22	.23	.23
	898	866	833	798	762	725	687	649	611	573	537	502	462	432	405	380	359	342	329	319	314	314	318	326

SEP-DEC 50 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.65	.62	.59	.57	.54	.51	.48	.45	.42	.39	.37	.34	.31	.29	.27	.25	.24	.22	.21	.21	.20	.20	.21	.21
		871	839	805	770	733	695	657	619	580	543	506	472	432	402	375	351	330	314	301	292	288	288	292	301
15		.62	.60	.57	.54	.51	.49	.46	.43	.40	.37	.34	.32	.29	.26	.25	.23	.21	.20	.19	.19	.18	.18	.19	.19
		841	808	774	738	701	663	624	585	547	509	473	438	399	369	342	319	299	282	270	262	258	259	263	272
30		.60	.57	.55	.52	.49	.46	.43	.40	.37	.34	.32	.29	.26	.24	.22	.20	.19	.18	.17	.16	.16	.16	.16	.17
		808	775	740	703	666	627	588	549	511	473	437	402	363	334	307	284	264	248	236	229	225	226	232	241
45		.57	.55	.52	.49	.46	.43	.40	.37	.34	.31	.29	.26	.23	.21	.19	.18	.16	.15	.14	.14	.13	.14	.14	.15
		772	738	703	666	628	589	549	510	471	434	397	363	324	295	269	246	227	211	200	193	190	191	197	207
1500		.54	.52	.49	.46	.43	.40	.37	.34	.31	.28	.26	.23	.20	.18	.16	.15	.13	.12	.11	.11	.11	.11	.11	.12
		733	699	663	625	587	548	508	469	430	392	355	321	283	254	228	205	187	172	161	154	152	154	160	170
15		.51	.49	.46	.43	.40	.37	.34	.31	.28	.25	.22	.20	.17	.15	.13	.12	.10	.09	.09	.08	.08	.08	.09	.09
		692	657	621	583	544	504	464	424	385	347	311	277	239	210	185	163	144	130	119	113	111	113	120	130
30		.48	.45	.43	.40	.37	.34	.31	.28	.25	.22	.19	.17	.14	.12	.10	.08	.07	.06	.05	.05	.05	.05	.06	.06
		648	613	576	537	498	458	418	378	339	301	265	230	193	164	139	118	100	086	076	070	069	071	077	088
45		.45	.42	.39	.36	.33	.30	.27	.24	.21	.18	.16	.13	.10	.08	.07	.05	.04	.03	.02	.02	.02	.02	.02	.03
		602	567	529	490	450	410	369	329	290	252	216	182	144	116	092	070	053	039	030	024	023	026	033	044
1600		.41	.38	.35	.32	.29	.26	.23	.20	.17	.15	.12	.10	.07	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00
		555	518	480	440	400	360	319	279	239	202	165	132	094	067	042	021	004	000	000	000	000	000	000	000
15		.37	.35	.32	.29	.26	.23	.20	.17	.14	.11	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		505	468	429	389	349	308	267	226	187	149	113	080	043	015	000	000	000	000	000	000	000	000	000	000
30		.34	.31	.28	.25	.22	.19	.16	.13	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		453	416	377	337	296	254	213	173	133	096	060	026	000	000	000	000	000	000	000	000	000	000	000	000
45		.30	.27	.24	.21	.18	.15	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		401	363	323	282	241	200	158	118	079	041	005	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 50 N TABLE B-1 SOLAR PARAMETERS COS Z
x0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.26	.23	.20	.17	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	347	308	268	227	186	144	103	062	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.22	.19	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	292	253	213	171	129	088	046	005	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.15	.12	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	236	197	156	115	073	030	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	180	140	099	058	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	124	084	042	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	068	027	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 50 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	035
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	060	091
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	048	084	117	148
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.13	.15
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	069	107	142	175	205
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.09	.12	.15	.17	.19
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	090	128	165	200	232	262
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.19	.21	.24
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	019	060	101	149	183	224	258	290	319
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.18	.21	.23	.26	.28
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	038	079	120	161	209	247	283	316	348	376
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13	.16	.20	.22	.25	.28	.30	.32
	000	000	000	000	000	000	000	000	000	000	000	000	017	057	098	139	180	221	268	305	341	374	404	432
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.08	.11	.14	.17	.20	.24	.27	.29	.32	.34	.36
	000	000	000	000	000	000	000	000	000	000	000	016	077	117	158	198	239	279	326	363	398	430	461	488
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.10	.13	.16	.19	.22	.25	.28	.31	.33	.36	.38	.40
	000	000	000	000	000	000	000	000	000	005	039	074	136	176	216	257	297	337	383	420	454	486	516	542
30	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.10	.14	.17	.20	.23	.26	.29	.32	.35	.37	.40	.42	.44
	000	000	000	000	000	000	000	003	031	062	096	132	193	233	274	314	354	394	439	475	509	541	569	596
45	.00	.00	.00	.00	.00	.01	.02	.04	.06	.08	.11	.14	.18	.21	.24	.27	.30	.33	.36	.39	.41	.44	.46	.48
	000	000	000	000	000	007	028	058	087	118	152	188	250	290	330	370	410	449	494	529	563	593	622	647

JAN-APR 48 N TABLE 8-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.01	.01	.01	.02	.03	.04	.06	.08	.10	.12	.15	.17	.22	.25	.28	.31	.34	.37	.40	.43	.45	.48	.50	.52
	012	014	019	029	043	060	082	112	141	173	207	243	305	344	384	424	464	502	547	582	614	645	673	698
15	.04	.04	.05	.06	.07	.08	.09	.12	.14	.16	.19	.21	.26	.29	.32	.35	.38	.40	.44	.47	.49	.51	.53	.55
	061	063	069	079	093	111	133	164	193	225	260	296	358	397	437	477	516	554	598	632	663	694	721	746
30	.08	.08	.08	.09	.10	.11	.13	.15	.17	.20	.22	.25	.29	.32	.35	.38	.41	.44	.47	.50	.52	.55	.57	.59
	108	110	117	127	142	161	183	214	244	276	311	347	409	448	488	527	566	603	647	680	712	741	768	792
45	.11	.11	.11	.12	.13	.15	.16	.19	.21	.23	.26	.28	.33	.36	.39	.42	.45	.47	.51	.53	.56	.58	.60	.62
	152	155	162	173	188	208	230	262	292	325	359	396	457	497	536	575	613	651	693	725	758	786	812	836
0900	.14	.14	.15	.15	.17	.18	.20	.22	.24	.26	.29	.32	.36	.39	.42	.45	.48	.51	.54	.56	.59	.61	.63	.65
	195	198	205	217	233	252	276	308	338	371	406	443	504	543	582	621	659	695	737	770	800	828	854	877
15	.17	.17	.17	.18	.19	.21	.23	.25	.27	.30	.32	.35	.39	.42	.45	.48	.51	.54	.57	.59	.62	.64	.66	.68
	234	238	246	258	274	294	318	351	381	414	450	486	547	586	625	664	701	737	778	811	841	868	893	915
30	.19	.19	.20	.21	.22	.24	.25	.28	.30	.32	.35	.38	.42	.45	.48	.51	.54	.57	.60	.62	.65	.67	.69	.71
	271	275	284	296	313	334	358	391	422	455	490	527	588	627	665	704	741	776	817	849	878	905	929	951
45	.22	.22	.23	.24	.25	.26	.28	.30	.33	.35	.38	.41	.45	.48	.51	.54	.56	.59	.62	.65	.67	.69	.71	.73
	305	309	318	332	349	370	395	428	460	493	528	565	626	664	703	740	777	812	852	883	912	939	962	984
1000	.24	.24	.25	.26	.27	.29	.30	.33	.35	.38	.40	.43	.48	.50	.53	.56	.59	.62	.65	.67	.69	.71	.73	.75
	336	341	350	364	382	404	429	463	494	528	563	600	661	699	737	774	810	845	884	915	943	969	993	*013
15	.26	.26	.27	.28	.29	.31	.33	.35	.37	.40	.43	.45	.50	.53	.55	.58	.61	.64	.67	.69	.71	.73	.75	.77
	363	369	379	393	412	434	459	494	525	559	595	632	692	730	768	804	840	874	913	943	971	996	*019	*040
30	.27	.28	.29	.30	.31	.33	.35	.37	.39	.42	.45	.47	.52	.55	.57	.60	.63	.66	.69	.71	.73	.75	.77	.79
	388	393	404	419	438	461	486	521	553	587	623	660	720	758	795	831	867	900	938	968	995	*020	*043	*063
45	.29	.29	.30	.31	.33	.34	.36	.39	.41	.44	.46	.49	.54	.56	.59	.62	.65	.67	.70	.73	.75	.77	.79	.80
	409	415	426	442	461	484	510	546	578	612	647	684	744	782	818	855	889	923	960	989	*016	*040	*062	*082

JAN-APR 48 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																											
	JAN							FEB					MAR						APR									
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30				
1100	.30	.31	.31	.33	.34	.36	.38	.40	.43	.45	.48	.51	.56	.59	.61	.63	.66	.69	.72	.74	.76	.78	.80	.81				
	426	433	444	461	480	504	530	566	598	633	668	705	765	802	838	874	908	941	978	*007	*033	*057	*079	*098				
15	.31	.32	.32	.34	.35	.37	.39	.41	.44	.46	.49	.52	.56	.59	.62	.64	.67	.70	.73	.75	.77	.79	.81	.82				
	440	447	459	476	496	520	547	583	616	650	686	722	782	818	855	890	924	956	992	*020	*046	*070	*091	*110				
30	.32	.32	.33	.35	.36	.38	.40	.42	.45	.47	.50	.53	.57	.60	.63	.65	.68	.70	.73	.76	.78	.80	.81	.83				
	450	457	470	487	508	533	560	596	629	663	699	736	794	831	867	902	935	967	*003	*030	056	*079	*100	*119				
45	.32	.33	.34	.35	.37	.38	.40	.43	.45	.48	.51	.53	.58	.61	.63	.66	.69	.71	.74	.76	.78	.80	.82	.83				
	456	464	478	495	517	541	569	606	638	673	709	745	804	840	875	910	943	974	*009	*037	*062	*085	*105	*124				
1200	.32	.33	.34	.35	.37	.39	.41	.43	.46	.48	.51	.54	.58	.61	.64	.66	.69	.71	.74	.76	.78	.80	.82	.83				
	459	467	481	500	521	546	574	611	644	679	714	750	809	845	880	914	946	977	*012	*039	*064	*086	*107	*125				
15	.32	.33	.34	.35	.37	.39	.41	.44	.46	.49	.51	.54	.58	.61	.64	.66	.69	.71	.74	.76	.78	.80	.82	.83				
	458	467	481	500	522	547	576	613	646	680	716	752	810	846	880	914	946	977	*011	*037	*062	*084	*104	*122				
30	.32	.33	.34	.35	.37	.39	.41	.43	.46	.48	.51	.54	.58	.61	.63	.66	.68	.71	.74	.76	.78	.80	.81	.83				
	453	462	478	497	519	545	573	611	644	678	714	750	807	842	877	910	942	972	*006	*032	*056	*078	*098	*116				
45	.31	.32	.33	.35	.36	.38	.40	.43	.45	.48	.51	.53	.58	.60	.63	.65	.68	.70	.73	.75	.77	.79	.80	.82				
	445	454	470	489	512	538	567	604	638	672	708	743	800	835	870	902	934	964	997	*023	*046	*068	*088	*106				
1300	.31	.31	.32	.34	.36	.37	.40	.42	.45	.47	.50	.53	.57	.59	.62	.65	.67	.69	.72	.74	.76	.78	.79	.81				
	433	443	459	479	502	528	557	595	628	662	698	733	790	824	858	891	922	951	984	*010	*033	*055	*074	*092				
15	.29	.30	.31	.33	.35	.36	.39	.41	.44	.46	.49	.52	.56	.58	.61	.63	.66	.68	.71	.73	.75	.77	.78	.80				
	417	427	444	464	487	514	543	581	614	648	684	719	775	810	843	875	906	935	968	993	*016	*038	*057	*075				
30	.28	.29	.30	.32	.33	.35	.37	.40	.42	.45	.48	.50	.54	.57	.60	.62	.64	.67	.69	.71	.73	.75	.77	.78				
	398	408	425	446	470	496	526	563	597	631	666	701	757	791	824	856	886	915	947	972	995	*017	*036	*054				
45	.27	.27	.29	.30	.32	.34	.36	.39	.41	.44	.46	.49	.53	.55	.58	.60	.63	.65	.68	.70	.71	.73	.75	.76				
	375	386	403	424	448	475	504	542	575	610	644	679	735	769	801	833	863	891	923	948	971	992	*012	*030				

JAN-APR 48 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.25	.25	.27	.28	.30	.32	.34	.37	.39	.42	.44	.47	.51	.54	.56	.58	.61	.63	.66	.68	.69	.71	.73	.74
	349	360	378	399	423	450	480	518	551	585	619	654	709	743	775	806	836	864	896	921	944	965	984	*002
15	.23	.23	.25	.26	.28	.30	.32	.35	.37	.40	.42	.45	.49	.51	.54	.56	.59	.61	.63	.65	.67	.69	.71	.72
	319	331	349	370	395	422	452	489	522	556	591	625	680	713	745	776	806	834	865	890	913	934	953	971
30	.20	.21	.22	.24	.26	.28	.30	.33	.35	.37	.40	.43	.47	.49	.51	.54	.56	.58	.61	.63	.65	.66	.68	.70
	287	299	317	339	363	391	420	458	491	525	559	593	647	680	712	743	772	800	831	855	878	900	919	937
45	.18	.19	.20	.22	.23	.25	.27	.30	.32	.35	.37	.40	.44	.46	.49	.51	.53	.56	.58	.60	.62	.64	.65	.67
	251	263	282	304	329	356	385	423	456	490	524	558	611	644	676	706	735	763	794	818	841	862	882	901
1500	.15	.16	.17	.19	.21	.23	.25	.27	.30	.32	.35	.37	.41	.44	.46	.48	.51	.53	.55	.57	.59	.61	.62	.64
	213	225	244	266	291	318	348	385	418	452	485	519	572	605	636	666	695	723	754	778	801	822	842	861
15	.12	.13	.14	.16	.18	.20	.22	.25	.27	.29	.32	.34	.38	.41	.43	.45	.47	.50	.52	.54	.56	.58	.59	.61
	172	184	203	225	250	278	307	345	377	410	444	478	530	562	594	623	652	680	711	735	758	780	800	819
30	.09	.10	.11	.13	.15	.17	.19	.21	.24	.26	.29	.31	.35	.37	.40	.42	.44	.46	.49	.51	.52	.54	.56	.57
	128	141	160	182	207	235	264	301	334	367	400	433	486	517	548	578	607	634	665	690	713	734	755	774
45	.06	.07	.08	.10	.11	.13	.16	.18	.21	.23	.25	.28	.32	.34	.36	.38	.41	.43	.45	.47	.49	.51	.52	.54
	082	095	115	137	162	189	218	255	288	320	353	386	438	470	501	530	559	586	617	642	665	687	708	727
1600	.02	.03	.05	.06	.08	.10	.12	.15	.17	.19	.22	.24	.28	.30	.33	.35	.37	.39	.41	.43	.45	.47	.49	.50
	034	047	067	089	114	141	170	207	239	272	304	337	389	420	451	480	508	536	567	592	615	637	658	678
15	.00	.00	.01	.03	.05	.07	.09	.11	.13	.16	.18	.20	.24	.27	.29	.31	.33	.35	.38	.40	.41	.43	.45	.47
	000	000	017	039	064	091	120	157	188	221	253	286	337	368	398	428	456	483	515	539	563	586	607	627
30	.00	.00	.00	.00	.01	.03	.05	.07	.10	.12	.14	.17	.20	.23	.25	.27	.29	.31	.34	.36	.38	.39	.41	.43
	000	000	000	000	012	039	068	104	136	168	200	232	283	314	344	374	402	429	461	486	510	533	554	575
45	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.10	.13	.16	.19	.21	.23	.25	.27	.30	.32	.33	.35	.37	.39
	000	000	000	000	000	000	014	050	081	113	145	177	228	258	288	318	346	374	405	430	455	478	500	521

JAN-APR 48 N TABLE B-1 SOLAR PARAMETERS COS Z

X0 (W/M**2.)

*** SIGNIFIES COS Z =1.

ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
1700	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.09		.12	.15	.17	.19	.21	.23		.26	.27	.29	.31	.33	.35								
	000	000	000	000	000	000	000	000	026	057	089	120		171	201	231	261	289	316		348	374	398	422	445	466								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05		.08	.10	.13	.15	.17	.19		.21	.23	.25	.27	.29	.30								
	000	000	000	000	000	000	000	000	000	000	031	063		112	143	173	202	231	258		290	316	341	365	388	410								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.04	.06	.08	.10	.13	.15		.17	.19	.21	.23	.25	.26								
	000	000	000	000	000	000	000	000	000	000	000	004		053	084	114	143	171	199		232	258	283	308	331	354								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.02	.04	.06	.08	.10		.13	.15	.17	.18	.20	.22								
	000	000	000	000	000	000	000	000	000	000	000	000		000	024	054	083	112	140		173	199	225	250	274	297								
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.02	.04	.06		.08	.10	.12	.14	.16	.18								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	023	052	080		113	140	166	191	216	240								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.01		.04	.06	.08	.10	.12	.14								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	020		053	081	107	133	158	182								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.02	.04	.06	.08	.09								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	022	049	075	101	126								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.01	.03	.05								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	018	044	069								
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.01								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	014								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								

JAN-APR 48 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
	DATE																							
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	007	019	025	028	028	024	017	008	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.01	.02	.03	.04	.05	.06	.06	.06	.06	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	007	027	044	057	068	074	077	076	072	065	056	044	029	012	000	000	000	000	000	000	000	000
45	.01	.03	.04	.06	.07	.08	.09	.09	.10	.10	.09	.09	.08	.07	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00
	010	036	059	079	095	108	119	124	127	126	122	115	106	094	079	063	044	024	000	000	000	000	000	000
0500	.05	.07	.08	.10	.11	.12	.13	.13	.13	.13	.13	.13	.12	.11	.10	.09	.07	.06	.04	.02	.00	.00	.00	.00
	064	090	112	132	147	160	170	176	178	177	173	166	156	144	130	114	096	076	051	029	005	000	000	000
15	.09	.11	.12	.14	.15	.16	.17	.17	.17	.17	.17	.16	.16	.15	.14	.13	.11	.10	.08	.06	.05	.03	.01	.00
	119	145	167	185	201	213	223	228	230	228	224	218	208	196	182	167	149	130	105	083	060	036	012	000
30	.13	.15	.17	.18	.19	.20	.21	.21	.21	.21	.21	.20	.20	.19	.18	.17	.15	.14	.12	.10	.09	07	.05	.03
	176	200	222	240	255	266	276	281	282	281	277	270	261	249	235	22[illegible]	203	184	160	138	116	92	068	044
45	.17	.19	.21	.22	.23	.24	.25	.25	.25	.25	.25	.24	.24	.23	.22	.21	.19	.18	.16	.15	[illegible]	.11	.09	.08
	232	256	277	295	309	320	330	334	335	334	330	323	314	302	289	274	257	238	215	194	172	149	126	101
0600	.21	.23	.25	.26	.27	.28	.29	.29	.29	.29	.29	.28	.28	.27	.26	.25	.24	.22	.20	.19	.17	.15	.14	.12
	289	312	333	350	364	375	384	388	389	387	383	376	367	356	343	328	311	293	270	250	228	206	183	159
15	.26	.27	.29	.30	.31	.32	.33	.33	.33	.33	.33	.32	.32	.31	.30	.29	.28	.26	.25	.23	.21	.20	.18	.16
	345	368	388	405	418	429	437	441	442	440	436	429	420	410	397	382	366	349	326	305	285	263	241	218
30	.30	.32	.33	.34	.35	.36	.37	.37	.37	.37	.37	.36	.36	.35	.34	.33	.32	.30	.29	.27	.26	.24	.22	.21
	401	424	443	460	473	483	491	494	495	493	489	482	474	463	450	436	421	404	382	362	342	320	298	275
45	.34	.36	.37	.38	.40	.40	.41	.41	.41	.41	.41	.40	.40	.39	.38	.37	.36	.35	.33	.31	.30	.28	.27	.25
	457	479	498	514	526	536	544	547	548	546	542	535	527	516	504	490	475	458	437	418	398	377	355	333

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700	.38	.40	.41	.42	.43	.44	.45	.45	.45	.45	.45	.44	.44	.43	.42	.41	.40	.39	.37	.36	.34	.32	.31	.29
	512	534	552	567	579	589	596	599	600	598	594	587	579	569	557	543	528	512	491	473	453	433	411	389
15	.42	.44	.45	.46	.47	.48	.49	.49	.49	.49	.49	.48	.48	.47	.46	.45	.44	.43	.41	.40	.38	.36	.35	.33
	566	587	605	620	631	640	647	650	651	649	645	638	630	620	609	596	581	565	545	527	508	488	467	445
30	.46	.48	.49	.50	.51	.52	.53	.53	.53	.53	.52	.52	.51	.51	.50	.49	.48	.47	.45	.44	.42	.41	.39	.37
	619	639	657	671	682	691	698	700	701	699	695	689	681	671	660	647	633	617	597	580	561	541	521	499
45	.50	.51	.53	.54	.55	.56	.56	.56	.57	.56	.56	.56	.55	.54	.54	.53	.52	.50	.49	.47	.46	.44	.43	.41
	670	690	707	721	732	740	747	749	749	747	743	737	730	720	709	697	683	668	649	631	613	594	574	552
0800	.54	.55	.56	.58	.58	.59	.60	.60	.60	.60	.60	.59	.59	.58	.57	.56	.55	.54	.53	.51	.50	.48	.47	.45
	720	739	755	769	780	788	794	796	796	795	791	785	777	768	757	745	732	717	699	682	664	645	625	604
15	.57	.59	.60	.61	.62	.63	.63	.63	.64	.63	.63	.63	.62	.62	.61	.60	.59	.58	.56	.55	.53	.52	.50	.49
	767	786	802	815	825	833	839	842	842	840	836	830	823	814	804	792	779	765	747	730	712	694	674	653
30	.60	.62	.63	.64	.65	.66	.66	.67	.67	.67	.66	.66	.66	.65	.64	.63	.62	.61	.60	.58	.57	.55	.54	.52
	813	831	847	859	869	877	883	885	885	883	880	874	867	859	849	837	825	811	793	776	759	741	721	700
45	.64	.65	.66	.67	.68	.69	.70	.70	.70	.70	.70	.69	.69	.68	.67	.66	.65	.64	.63	.62	.60	.59	.57	.55
	856	874	889	901	911	918	924	926	927	925	921	916	909	901	891	880	868	854	837	821	804	785	766	745
0900	.67	.68	.69	.70	.71	.72	.72	.73	.73	.73	.73	.72	.72	.71	.70	.69	.69	.67	.66	.65	.63	.62	.60	.59
	897	914	929	941	950	958	963	965	965	964	960	955	947	941	931	921	909	896	878	863	846	828	808	788
15	.70	.71	.72	.73	.74	.75	.75	.75	.76	.76	.75	.75	.75	.74	.73	.72	.71	.70	.69	.68	.66	.65	.63	.62
	935	952	966	978	987	994	*000	*002	*002	*000	997	992	985	978	969	959	947	934	917	902	885	867	848	828
30	.72	.74	.75	.76	.77	.77	.78	.78	.78	.78	.78	.78	.77	.77	.76	.75	.74	.73	.72	.70	.69	.68	.66	.64
	970	987	*001	*012	*021	*028	*033	*036	*036	*034	*031	*027	*021	*013	*004	994	983	970	954	939	922	904	885	865
45	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80	.80	.80	.80	.79	.78	.78	.77	.76	.74	.73	.72	.70	.69	.67
	*003	*019	*032	*044	*052	*059	*064	*067	*067	*066	*063	*058	*053	*045	*037	*027	*016	*004	987	972	956	938	919	899

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z x0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.77	.78	.79	.80	.81	.82	.82	.82	.83	.83	.82	.82	.82	.81	.81	.80	.79	.78	.77	.75	.74	.72	.71	.69
	*032	*048	*061	*072	*081	*087	*092	*095	*095	*094	*091	*087	*082	*075	*067	*057	*046	*034	*018	*003	987	969	950	930
15	.79	.80	.81	.82	.83	.84	.84	.84	.85	.85	.84	.84	.84	.83	.83	.82	.81	.80	.79	.77	.76	.75	.73	.71
	*058	*073	*086	*097	*106	*112	*117	*120	*120	*119	*117	*113	*108	*101	*093	*084	*073	*062	*046	*031	*015	997	978	957
30	.80	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.86	.85	.85	.84	.84	.83	.82	.80	.79	.78	.76	.75	.73
	*080	*095	*108	*119	*127	*134	*139	*142	*142	*142	*139	*136	*131	*124	*117	*108	*097	*086	*070	*055	*039	*021	*002	981
45	.82	.83	.84	.85	.86	.87	.87	.87	.88	.88	.88	.87	.87	.86	.86	.85	.84	.83	.82	.81	.79	.78	.76	.75
	*099	*114	*127	*138	*146	*152	*158	*160	*161	*161	*159	*155	*150	*144	*137	*128	*118	*107	*091	*075	*060	*042	*023	*002
1100	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.87	.86	.86	.85	.83	.82	.81	.79	.78	.76
	*115	*130	*142	*153	*161	*168	*173	*176	*177	*176	*175	*171	*167	*161	*154	*145	*135	*124	*108	*094	*078	*060	*040	*019
15	.84	.85	.86	.87	.88	.89	.89	.89	.90	.90	.90	.89	.89	.89	.88	.87	.87	.86	.84	.83	.82	.80	.79	.77
	*127	*142	*154	*164	*173	*179	*185	*188	*189	*189	*187	*184	*180	*174	*167	*159	*149	*138	*123	*108	*092	*074	*054	*032
30	.84	.86	.87	.88	.89	.89	.90	.90	.90	.90	.90	.90	.90	.89	.89	.88	.87	.86	.85	.84	.83	.81	.79	.78
	*135	*150	*162	*172	*181	*187	*193	*196	*198	*198	*196	*194	*190	*184	*178	*169	*160	*149	*133	*118	*102	*084	*064	*042
45	.85	.86	.87	.88	.89	.90	.90	.91	.91	.91	.91	.91	.90	.90	.89	.89	.88	.87	.86	.84	.83	.82	.80	.78
	*140	*154	*167	*177	*185	*192	*198	*201	*203	*203	*202	*200	*196	*191	*184	*176	*167	*156	*140	*125	*109	*090	*070	*048
1200	.85	.86	.87	.88	.89	.90	.90	.91	.91	.91	.91	.91	.91	.90	.90	.89	.88	.87	.86	.85	.83	.82	.80	.78
	*141	*155	*167	*178	*186	*193	*199	*203	*205	*205	*205	*202	*199	*194	*187	*179	*170	*159	*143	*128	*112	*093	*072	*050
15	.85	.86	.87	.88	.89	.89	.90	.90	.91	.91	.91	.91	.91	.90	.90	.89	.88	.87	.86	.85	.83	.82	.80	.78
	*138	*153	*165	*175	*184	*191	*197	*201	*203	*204	*203	*201	*198	*193	*187	*179	*170	*159	*143	*128	*111	*092	*071	*048
30	.84	.85	.87	.87	.88	.89	.90	.90	.90	.91	.91	.90	.90	.90	.89	.89	.88	.87	.86	.84	.83	.81	.80	.78
	*132	*146	*158	*169	*178	*185	*192	*195	*198	*199	*199	*197	*194	*189	*183	*175	*166	*155	*139	*124	*107	*087	*066	*043
45	.83	.85	.86	.87	.88	.88	.89	.89	.90	.90	.90	.90	.90	.89	.89	.88	.87	.86	.85	.84	.82	.81	.79	.77
	*122	*136	*148	*159	*168	*175	*182	*187	*189	*191	*191	*189	*186	*182	*176	*168	*159	*147	*131	*116	*098	*079	*057	*033

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300		.82	.84	.85	.86	.87	.87	.88	.88	.89	.89	.89	.89	.89	.88	.88	.87	.87	.86	.84	.83	.81	.80	.78	.76
		*108	*122	*135	*146	*155	*162	*170	*174	*177	*179	*179	*178	*175	*171	*165	*157	*148	*136	*120	*105	*087	*067	*045	*020
15		.81	.82	.83	.84	.85	.86	.87	.87	.88	.88	.88	.88	.89	.87	.87	.86	.85	.84	.83	.82	.80	.79	.77	.75
		*091	*105	*118	*129	*138	*146	*154	*158	*162	*164	*164	*163	*160	*156	*150	*143	*133	*122	*105	*088	*071	*051	*028	*004
30		.80	.81	.82	.83	.84	.85	.85	.86	.86	.86	.87	.87	.86	.86	.86	.85	.84	.83	.82	.80	.79	.77	.75	.73
		*070	*085	*097	*109	*118	*126	*134	*139	*143	*145	*146	*145	*143	*138	*133	*125	*115	*104	*087	*071	*052	*032	*009	983
45		.78	.79	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.84	.84	.83	.83	.82	.80	.79	.77	.75	.74	.71
		*046	*061	*074	*085	*095	*103	*112	*117	*121	*123	*124	*124	*121	*117	*112	*104	*094	*083	*066	*049	*030	*009	985	960
1400		.76	.77	.78	.79	.80	.81	.82	.82	.83	.83	.83	.83	.83	.83	.82	.81	.81	.80	.78	.77	.75	.73	.72	.69
		*019	*033	*047	*058	*069	*077	*086	*092	*096	*099	*100	*099	*097	*093	*087	*080	*070	*058	*041	*024	*004	983	959	932
15		.73	.75	.76	.77	.78	.79	.80	.80	.81	.81	.81	.81	.81	.81	.80	.79	.79	.78	.76	.75	.73	.71	.69	.67
		988	*003	*016	*028	*039	*048	*057	*063	*068	*071	*072	*072	*070	*066	*060	*052	*042	*030	*013	995	975	953	929	902
30		.71	.72	.73	.75	.75	.76	.77	.78	.78	.79	.79	.79	.79	.78	.78	.77	.76	.75	.74	.72	.71	.69	.67	.65
		954	969	983	996	*007	*016	*026	*032	*037	*040	*042	*041	*040	*036	*030	*022	*012	999	981	964	943	921	896	868
45		.68	.70	.71	.72	.73	.74	.75	.75	.76	.76	.76	.76	.76	.76	.75	.75	.74	.73	.71	.70	.68	.66	.64	.62
		918	933	947	960	971	981	991	998	*003	*006	*008	*008	*006	003	997	989	978	966	947	929	908	885	859	831
1500		.65	.67	.68	.69	.70	.71	.72	.72	.73	.73	.73	.73	.73	.73	.73	.72	.71	.70	.68	.67	.65	.63	.61	.59
		878	894	909	922	933	944	954	961	966	970	972	972	971	967	961	953	942	929	910	892	870	847	820	792
15		.62	.64	.65	.66	.67	.68	.69	.69	.70	.70	.71	.71	.70	.70	.70	.69	.68	.67	.65	.64	.62	.60	.58	.56
		836	853	867	881	893	904	915	922	928	932	934	934	932	929	922	914	903	890	871	852	830	806	779	749
30		.59	.60	.62	.63	.64	.65	.66	.66	.67	.67	.67	.68	.67	.67	.67	.66	.65	.64	.62	.61	.59	.57	.55	.52
		792	809	824	838	850	861	873	880	886	891	893	893	892	888	882	873	862	848	829	809	787	762	735	705
45		.55	.57	.58	.59	.60	.61	.62	.63	.64	.64	.64	.64	.64	.64	.63	.63	.62	.61	.59	.57	.56	.54	.51	.49
		745	762	778	792	805	817	829	837	843	847	850	851	849	845	839	830	819	805	784	764	742	716	688	658

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1600	.52	.53	.55	.56	.57	.58	.59	.60	.60	.61	.61	.61	.61	.60	.60	.59	.58	.57	.55	.54	.52	.50	.48	.45
	697	714	730	745	759	771	783	791	798	802	805	806	804	800	794	785	773	759	738	717	694	668	639	608
15	.48	.50	.51	.52	.53	.54	.55	.56	.57	.57	.57	.57	.57	.57	.56	.56	.55	.54	.52	.5[illegible]	48	.46	.44	.41
	646	664	681	696	710	722	735	744	751	756	758	759	757	753	747	738	726	711	689	66[illegible]	45	618	589	557
30	.44	.46	.47	.48	.50	.51	.52	.52	.53	.53	.54	.54	.54	.53	.53	.52	.51	.50	.48	.4[illegible]	.44	.42	.40	.38
	595	613	630	646	660	673	686	695	702	707	710	711	709	705	698	689	676	661	639	61[illegible]	593	566	537	504
45	.40	.42	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50	.50	.50	.49	.48	.47	.46	.44	.42	.41	.38	.36	.34
	541	560	578	594	609	622	635	645	652	657	661	661	660	655	648	638	626	610	588	56[illegible]	541	513	483	450
1700	.36	.38	.39	.41	.42	.43	.44	.45	.45	.46	.46	.46	.46	.46	.45	.44	.43	.42	.40	.38	.37	.34	.32	.29
	487	506	524	541	556	570	584	594	601	607	610	611	609	604	597	587	574	558	535	512	487	459	428	395
15	.32	.34	.35	.36	.38	.39	.40	.41	.41	.42	.42	.42	.42	.42	.41	.40	.39	.38	.36	.34	.32	.30	.28	.25
	431	451	470	487	503	517	531	541	549	555	558	559	557	552	545	535	521	505	481	458	432	403	372	338
30	.28	.30	.31	.32	.34	.35	.36	.37	.37	.38	.38	.38	.38	.38	.37	.36	.35	.34	.32	.30	.28	.26	.24	.21
	375	396	415	433	449	463	478	488	497	502	506	506	504	500	492	481	468	451	426	403	376	347	315	281
45	.24	.25	.27	.28	.30	.31	.32	.33	.33	.34	.34	.34	.34	.34	.33	.32	.31	.30	.28	.26	.24	.22	.19	.17
	319	340	359	378	394	409	425	435	443	449	453	453	451	446	438	427	413	396	371	347	320	290	258	223
1800	.20	.21	.23	.24	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30	.29	.28	.27	.26	.24	.22	.20	.17	.15	.12
	262	284	304	323	340	355	371	382	390	396	400	400	398	393	385	373	359	341	316	291	264	233	200	165
15	.15	.17	.19	.20	.21	.23	.24	.25	.25	.26	.26	.26	.26	.26	.25	.24	.23	.22	.20	.18	.16	.13	.11	.08
	206	228	248	268	285	301	317	328	337	343	346	347	345	339	331	319	304	286	260	235	207	176	143	107
30	.11	.13	.14	.16	.17	.19	.20	.21	.21	.22	.22	.22	.22	.22	.21	.20	.19	.17	.15	.13	.11	.09	.06	.04
	149	172	193	213	231	247	264	275	284	290	293	294	291	286	277	265	250	231	204	179	150	119	085	049
45	.07	.09	.10	.12	.13	.15	.16	.17	.17	.18	.18	.18	.18	.18	.17	.16	.15	.13	.11	.09	.07	.05	.02	.00
	094	117	138	159	177	194	211	222	231	237	241	241	238	233	224	211	195	176	149	123	094	063	028	000

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900	.03	.05	.06	.08	.09	.11	.12	.13	.14	.14	.14	.14	.14	.14	.13	.12	.11	.09	.07	.05	.03	.01	.00	.00
	039	062	085	105	124	141	158	170	179	185	189	189	186	180	171	158	142	122	095	068	039	007	000	000
15	.00	.01	.02	.04	.05	.07	.08	.09	.10	.10	.10	.10	.10	.10	.09	.08	.07	.05	.03	.01	.00	.00	.00	.00
	000	009	032	053	072	089	107	119	128	134	138	138	135	128	119	106	089	069	041	014	000	000	000	000
30	.00	.00	.00	.00	.02	.03	.04	.05	.06	.06	.07	.07	.06	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00
	000	000	000	002	021	039	057	069	078	084	088	088	084	078	068	054	037	017	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03	.03	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	008	020	029	036	039	039	035	029	018	004	000	000	000	000	000	000	000	000

MAY-AUG 48 N TABLE B-1 SOLAR PARAMETERS COS Z ••• SIGNIFIES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY •

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	072	046	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	130	105	079	053	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.12	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	189	164	139	112	086	058	030	001	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.15	.13	.11	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	247	223	197	171	145	117	089	060	031	001	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.23	.21	.19	.17	.15	.13	.11	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	305	281	256	230	203	176	148	119	089	059	029	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.27	.25	.23	.21	.19	.17	.15	.13	.11	.08	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	362	338	313	287	261	233	205	176	146	116	086	055	019	000	000	000	000	000	000	000	000	000	000	000
15	.31	.29	.27	.25	.23	.21	.19	.17	.15	.12	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	418	394	369	344	317	290	261	232	202	172	141	110	074	044	015	000	000	000	000	000	000	000	000	000
30	.35	.33	.31	.29	.27	.25	.23	.21	.19	.16	.14	.12	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00
	472	449	424	399	372	345	316	287	257	226	195	164	127	097	068	040	014	000	000	000	000	000	000	000
45	.39	.37	.35	.33	.31	.29	.27	.25	.23	.20	.18	.16	.13	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00
	526	502	478	452	426	398	369	340	310	279	248	216	179	148	119	091	065	041	019	001	000	000	000	000

SEP-DEC 48 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.43	.41	.39	.37	.35	.33	.31	.28	.26	.24	.22	.19	.16	.14	.12	.10	.08	.06	.05	.04	.03	.02	.01	.01
	577	554	529	504	477	449	421	391	360	329	298	266	229	196	169	140	114	090	069	050	035	024	016	012
15	.47	.45	.43	.41	.39	.37	.34	.32	.30	.27	.25	.23	.20	.18	.15	.13	.12	.10	.08	.07	.06	.05	.05	.04
	627	603	579	553	527	499	470	440	409	378	346	314	276	246	216	188	161	137	116	098	083	072	064	061
30	.50	.48	.46	.44	.42	.40	.38	.35	.33	.31	.28	.26	.23	.21	.19	.17	.15	.13	.11	.10	.09	.08	.08	.08
	674	651	626	601	574	546	517	486	455	424	392	360	322	291	261	233	206	182	161	143	129	118	111	108
45	.53	.52	.50	.48	.45	.43	.41	.39	.36	.34	.31	.29	.26	.24	.22	.20	.18	.16	.15	.13	.12	.11	.11	.11
	719	696	671	646	618	590	561	530	499	467	435	403	364	333	303	275	249	225	204	185	172	161	155	152
0900	.57	.55	.53	.51	.48	.46	.44	.42	.39	.37	.34	.32	.29	.27	.25	.22	.21	.19	.17	.16	.15	.14	.14	.14
	762	738	714	688	660	632	602	572	540	508	475	443	404	373	343	315	289	265	244	227	213	202	196	194
15	.59	.58	.56	.54	.51	.49	.47	.44	.42	.40	.37	.35	.32	.29	.27	.25	.23	.22	.20	.19	.18	.17	.17	.17
	802	778	753	727	700	671	641	610	578	546	513	480	442	410	380	352	326	302	282	264	251	241	235	234
30	.62	.60	.58	.56	.54	.52	.49	.47	.44	.42	.40	.37	.34	.32	.30	.28	.26	.24	.22	.21	.20	.20	.19	.19
	838	815	790	763	736	707	676	645	613	580	547	514	476	444	414	386	360	336	316	299	286	276	271	270
45	.65	.63	.61	.59	.56	.54	.52	.49	.47	.44	.42	.39	.36	.34	.32	.30	.28	.26	.25	.23	.23	.22	.22	.22
	872	849	823	797	769	739	709	677	645	612	578	545	506	475	445	417	391	368	348	331	318	309	304	304
1000	.67	.65	.63	.61	.59	.56	.54	.51	.49	.46	.44	.41	.38	.36	.34	.32	.30	.28	.27	.25	.25	.24	.24	.24
	903	879	854	827	798	768	738	706	673	640	606	573	534	502	472	444	419	396	376	360	347	339	334	334
15	.69	.67	.65	.63	.61	.58	.56	.53	.51	.48	.46	.43	.40	.38	.35	.33	.32	.30	.28	.27	.26	.26	.26	.26
	930	906	880	853	824	794	763	731	698	664	630	597	558	526	496	468	443	420	401	385	373	365	361	362
30	.71	.69	.67	.64	.62	.60	.57	.55	.52	.50	.47	.44	.42	.39	.37	.35	.33	.31	.30	.29	.28	.27	.27	.27
	954	930	904	876	847	816	785	752	719	685	651	618	578	547	517	489	464	441	422	407	395	388	385	386
45	.72	.70	.68	.66	.64	.61	.59	.56	.53	.51	.48	.46	.43	.40	.38	.36	.34	.33	.31	.30	.29	.29	.29	.29
	974	950	923	895	866	835	803	770	736	702	668	634	595	564	534	506	481	459	440	425	414	407	405	406

SEP-DEC 48 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.74	.71	.69	.67	.65	.62	.60	.57	.54	.52	.49	.47	.44	.41	.39	.37	.35	.34	.32	.31	.30	.30	.30	.30
	991	966	939	911	881	850	817	784	750	716	681	648	608	577	547	520	495	473	455	440	430	423	421	424
15	.75	.72	.70	.68	.65	.63	.60	.58	.55	.52	.50	.47	.44	.42	.40	.38	.36	.34	.33	.32	.31	.31	.31	.31
	*004	979	951	923	892	861	828	794	760	725	691	657	617	586	557	529	505	484	466	452	442	436	434	437
30	.75	.73	.71	.68	.66	.64	.61	.58	.56	.53	.50	.48	.45	.42	.40	.38	.36	.35	.34	.33	.32	.31	.31	.32
	*013	987	960	931	900	868	834	800	766	731	696	662	623	592	562	535	511	490	473	459	450	444	443	447
45	.76	.73	.71	.69	.66	.64	.61	.58	.56	.53	.50	.48	.45	.43	.40	.38	.37	.35	.34	.33	.32	.32	.32	.32
	*019	992	964	935	903	871	837	803	768	733	698	664	624	593	564	538	514	493	476	463	454	449	449	453
1200	.76	.74	.71	.69	.66	.64	.61	.58	.56	.53	.50	.48	.45	.42	.40	.38	.37	.35	.34	.33	.32	.32	.32	.32
	*020	994	965	935	903	870	836	801	766	731	696	662	622	591	562	536	513	492	476	463	455	451	451	456
15	.76	.73	.71	.69	.66	.63	.61	.58	.55	.52	.50	.47	.44	.42	.40	.38	.36	.35	.34	.33	.32	.32	.32	.32
	*018	991	962	931	899	865	831	796	760	725	690	655	616	585	557	531	508	488	472	460	452	448	449	454
30	.75	.73	.70	.68	.65	.63	.60	.57	.54	.52	.49	.46	.44	.41	.39	.37	.36	.34	.33	.32	.32	.31	.31	.32
	*012	984	955	923	891	857	822	786	751	715	680	645	606	576	547	521	499	480	464	453	445	442	444	449
45	.74	.72	.70	.67	.65	.62	.59	.56	.53	.51	.48	.45	.43	.40	.38	.36	.35	.33	.32	.31	.31	.31	.31	.31
	*002	974	944	912	879	844	809	773	737	701	666	632	593	562	534	509	486	468	453	442	435	432	434	441
1300	.73	.71	.69	.66	.63	.61	.58	.55	.52	.49	.47	.44	.41	.39	.37	.35	.33	.32	.31	.30	.30	.30	.30	.30
	988	960	929	897	863	828	792	756	720	684	648	614	575	545	517	492	470	452	437	427	421	419	421	428
15	.72	.70	.67	.65	.62	.59	.56	.54	.51	.48	.45	.43	.40	.38	.35	.34	.32	.31	.30	.29	.29	.28	.29	.29
	971	942	911	878	844	808	772	735	699	663	627	593	554	524	496	472	450	433	419	409	403	402	405	412
30	.71	.68	.66	.63	.60	.57	.55	.52	.49	.46	.43	.41	.38	.36	.34	.32	.30	.29	.28	.27	.27	.27	.27	.28
	950	920	888	855	820	785	748	711	674	638	602	568	530	500	472	448	427	410	397	387	382	381	385	393
45	.69	.66	.64	.61	.58	.55	.53	.50	.47	.44	.41	.39	.36	.34	.32	.30	.29	.27	.26	.26	.25	.25	.26	.26
	926	895	863	829	794	757	721	683	646	610	574	540	501	472	445	421	401	384	371	362	358	357	361	370

SEP-DEC 48 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.67	.64	.62	.59	.56	.53	.50	.47	.45	.42	.39	.37	.34	.32	.30	.28	.26	.25	.24	.24	.23	.23	.24	.24
	898	867	834	799	764	727	690	652	615	578	543	508	470	441	414	391	371	354	342	334	330	330	335	343
15	.64	.62	.59	.56	.54	.51	.48	.45	.42	.39	.37	.34	.31	.29	.27	.26	.24	.23	.22	.21	.21	.21	.22	.22
	866	835	801	766	730	693	655	618	580	543	508	474	436	407	380	357	338	322	310	302	299	300	305	314
30	.62	.59	.57	.54	.51	.48	.45	.42	.39	.37	.34	.31	.29	.26	.25	.23	.22	.20	.20	.19	.19	.19	.19	.20
	832	800	766	730	694	656	618	580	542	505	470	436	398	369	343	321	302	286	275	268	265	266	272	281
45	59	.56	.54	.51	.48	.45	.42	.39	.36	.34	.31	.28	.26	.24	.22	.20	.19	.18	.17	.16	.16	.16	.17	.17
	795	762	727	691	654	616	578	539	501	465	429	395	358	329	304	281	263	248	237	230	228	230	235	245
1500	.56	.53	.51	.48	.45	.42	.39	.36	.33	.30	.28	.25	.23	.21	.19	.17	.16	.15	.14	.14	.13	.14	.14	.15
	754	721	686	649	612	573	534	496	458	421	385	352	314	286	261	239	221	207	196	190	188	190	197	207
15	.53	.50	.47	.45	.42	.39	.36	.33	.30	.27	.25	.22	.19	.17	.15	.14	.13	.12	.11	.10	.10	.11	.11	.12
	711	677	642	605	566	528	489	450	412	375	339	306	269	241	216	195	177	163	153	147	146	148	155	166
30	.49	.47	.44	.41	.38	.35	.32	.29	.26	.24	.21	.19	.16	.14	.12	.11	.09	.08	.08	.07	.07	.07	.08	.09
	666	631	595	557	519	480	440	401	363	326	291	257	221	193	169	148	130	117	108	102	101	104	111	122
45	.46	.43	.40	.37	.34	.31	.28	.26	.23	.20	.17	.15	.12	.10	.09	.07	.06	.05	.04	.04	.04	.04	.05	.05
	618	583	546	508	469	430	390	351	313	275	240	207	170	143	119	099	082	069	060	055	054	058	065	076
1600	.42	.39	.37	.34	.31	.28	.25	.22	.19	.16	.14	.11	.09	.07	.05	.03	.02	.01	.01	.00	.00	.01	.01	.02
	568	532	495	457	417	377	338	298	260	223	188	155	116	091	068	048	031	019	010	005	005	009	017	028
15	.38	.36	.33	.30	.27	.24	.21	.18	.15	.12	.10	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	516	480	442	403	364	323	283	244	205	168	133	101	065	038	015	000	000	000	000	000	000	000	000	000
30	.34	.32	.29	.26	.23	.20	.17	.14	.11	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	463	426	388	348	308	268	228	188	150	113	078	045	009	000	000	000	000	000	000	000	000	000	000	000
45	.30	.27	.25	.22	.19	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	408	371	332	292	252	211	171	131	092	056	021	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 48 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.26	.23	.20	.17	.14	.11	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	352	314	275	235	194	153	112	073	034	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.22	.19	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	295	256	217	176	135	094	054	014	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.15	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	237	198	158	117	076	035	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	178	139	099	058	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	120	080	040	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	061	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	003	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 48 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	060	086
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.07	.09	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	035	068	099	127	154
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.10	.12	.14	.16
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	070	104	137	167	195	221
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.15	.17	.20	.21
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	062	098	140	174	206	236	263	288
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.10	.12	.15	.18	.20	.22	.25	.26
	000	000	000	000	000	000	000	000	000	000	000	000	000	025	060	097	133	169	210	244	275	304	331	355
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.12	.15	.17	.20	.23	.25	.27	.29	.31
	000	000	000	000	000	000	000	000	000	000	000	008	061	095	131	167	203	239	280	312	343	372	398	422
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.06	.09	.12	.15	.17	.20	.22	.26	.28	.30	.32	.34	.36
	000	000	000	000	000	000	000	000	000	019	047	078	131	166	201	237	273	308	348	380	411	439	464	487
15	.00	.00	.00	.00	.00	.00	.01	.03	.04	.06	.08	.11	.14	.17	.20	.22	.25	.27	.30	.33	.35	.37	.39	.41
	000	000	000	000	000	000	015	039	062	088	116	147	200	235	270	306	341	376	416	447	477	504	529	551
30	.03	.03	.03	.03	.04	.05	.06	.08	.09	.11	.13	.15	.19	.22	.24	.27	.30	.32	.35	.38	.40	.42	.44	.46
	037	036	038	043	052	065	081	105	129	155	184	215	268	303	338	373	408	442	482	513	542	568	592	614
45	.07	.07	.07	.08	.08	.09	.10	.12	.14	.16	.18	.20	.24	.27	.29	.32	.34	.37	.40	.42	.44	.47	.48	.50
	099	098	100	106	116	129	146	171	194	221	250	281	334	369	404	439	474	507	546	576	605	631	654	675

JAN-APR 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.11	.11	.11	.12	.13	.14	.15	.17	.18	.20	.23	.25	.29	.31	.34	.36	.39	.42	.45	.47	.49	.51	.53	.54
	158	158	161	167	178	191	209	234	258	285	315	346	390	434	468	503	537	570	608	638	666	691	714	734
15	.15	.15	.16	.16	.17	.18	.19	.21	.23	.25	.27	.29	.33	.36	.38	.41	.44	.46	.49	.51	.53	.55	.57	.59
	216	216	219	226	237	252	270	295	320	347	377	408	462	496	530	565	599	631	668	698	724	749	771	791
30	.19	.19	.20	.20	.21	.22	.23	.25	.27	.29	.31	.34	.38	.40	.43	.45	.48	.50	.53	.55	.57	.59	.61	.63
	271	271	275	283	295	310	328	354	379	407	437	468	522	556	590	624	657	690	726	754	781	805	826	845
45	.23	.23	.23	.24	.25	.26	.27	.29	.31	.33	.35	.38	.42	.44	.47	.49	.52	.54	.57	.59	.61	.63	.65	.66
	324	324	329	337	349	365	*384	411	436	464	494	526	579	613	647	681	713	745	781	809	834	857	878	896
0900	.26	.27	.27	.28	.28	.30	.31	.33	.35	.37	.39	.42	.46	.48	.51	.53	.56	.58	.61	.63	.65	.67	.69	.70
	373	375	380	389	401	418	437	464	490	519	549	581	634	667	701	734	767	798	833	860	885	907	927	945
15	.30	.30	.30	.31	.32	.33	.35	.37	.39	.41	.43	.45	.49	.52	.54	.57	.59	.62	.64	.67	.69	.70	.72	.73
	420	422	428	437	450	467	487	515	541	570	600	632	685	719	752	785	817	847	881	908	932	954	973	990
30	.33	.33	.33	.34	.35	.36	.38	.40	.42	.44	.46	.49	.53	.55	.58	.60	.63	.65	.68	.70	.72	.74	.75	.77
	463	466	472	482	496	513	534	563	589	618	648	680	733	766	799	832	863	893	927	952	976	997	*016	*032
45	.36	.36	.36	.37	.38	.39	.41	.43	.45	.47	.50	.52	.56	.58	.61	.63	.66	.68	.71	.73	.75	.76	.78	.79
	503	506	513	524	538	556	577	607	633	662	693	725	778	811	843	875	906	935	968	993	*016	*037	*055	*071
1000	.38	.38	.39	.40	.41	.42	.44	.46	.48	.50	.52	.55	.59	.61	.64	.66	.69	.71	.74	.75	.77	.79	.81	.82
	540	543	551	562	577	596	617	647	674	703	734	766	818	851	883	915	945	974	*006	*031	*053	*073	*091	*106
15	.40	.41	.41	.42	.43	.45	.46	.49	.51	.53	.55	.58	.61	.64	.66	.69	.71	.74	.76	.78	.80	.81	.83	.84
	572	576	584	596	612	631	653	683	711	740	771	803	855	888	920	951	980	*009	*040	*064	*085	*105	*122	*137
30	.42	.43	.43	.44	.46	.47	.49	.51	.53	.55	.57	.60	.64	.66	.69	.71	.74	.76	.78	.80	.82	.84	.85	.86
	601	605	614	627	643	663	685	716	744	773	804	836	888	920	952	982	*011	*039	*070	*093	*114	*133	*150	*164
45	.44	.45	.45	.46	.47	.49	.51	.53	.55	.57	.60	.62	.66	.68	.71	.73	.75	.78	.80	.82	.84	.85	.87	.88
	625	630	640	653	670	690	713	744	773	802	833	865	917	948	980	*010	*038	*065	*095	*118	*139	*157	*173	*187

JAN-APR 38 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.46	.46	.47	.48	.49	.51	.52	.55	.57	.59	.61	.64	.68	.70	.72	.75	.77	.79	.82	.84	.85	.87	.88	.89
	646	651	662	676	693	714	737	769	797	827	858	890	941	972	003	033	061	087	*117	*133	*159	*176	*192	*206
15	.47	.47	.48	.49	.50	.52	.54	.56	.58	.60	.63	.65	.69	.71	.74	.76	.78	.81	.83	.85	.86	.88	.89	.90
	662	668	679	694	712	733	757	789	817	847	878	910	961	992	022	051	079	105	*133	*155	*174	*192	*207	*220
30	.48	.48	.49	.50	.51	.53	.55	.57	.59	.62	.64	.66	.70	.73	.75	.77	.79	.81	.84	.86	.87	.89	.90	.91
	674	680	692	707	726	748	772	804	833	863	894	926	976	007	037	065	092	118	*146	*167	*186	*203	*217	*230
45	.48	.49	.50	.51	.52	.54	.56	.58	.60	.62	.65	.67	.71	.73	.76	.78	.80	.82	.84	.86	.88	.89	.90	.92
	681	689	701	717	736	758	783	815	844	874	905	937	987	017	047	075	101	126	*153	*174	*193	*209	*223	*236
1200	.48	.49	.50	.51	.52	.54	.56	.58	.61	.63	.65	.68	.71	.74	.76	.78	.80	.82	.85	.86	.88	.89	.91	.92
	685	692	705	722	741	764	789	822	851	881	912	943	993	023	052	080	106	130	*157	*177	*195	*211	*225	*237
15	.48	.49	.50	.51	.53	.54	.56	.59	.61	.63	.65	.68	.71	.74	.76	.78	.80	.82	.84	.86	.88	.89	.90	.92
	683	692	705	722	742	765	791	824	853	883	914	945	994	024	052	080	105	129	*155	*175	*193	*209	*222	*234
30	.48	.49	.50	.51	.52	.54	.56	.58	.61	.63	.65	.67	.71	.74	.76	.78	.80	.82	.84	.86	.87	.89	.90	.91
	678	686	701	718	739	762	788	821	850	881	911	942	991	020	048	075	100	124	*149	*169	*186	*201	*215	*227
45	.47	.48	.49	.50	.52	.53	.55	.58	.60	.62	.65	.67	.71	.73	.75	.77	.79	.81	.83	.85	.86	.88	.89	.90
	668	677	692	710	731	754	780	814	843	873	904	935	983	012	040	066	091	114	*139	*158	*175	*190	*203	*215
1300	.46	.47	.48	.49	.51	.53	.55	.57	.59	.61	.64	.66	.70	.72	.74	.76	.78	.80	.82	.84	.85	.87	.88	.89
	654	663	678	697	718	742	768	802	832	862	892	923	970	999	026	052	077	099	*124	*142	*159	*174	*187	*199
15	.45	.46	.47	.48	.50	.51	.53	.56	.58	.60	.63	.65	.69	.71	.73	.75	.77	.79	.81	.82	.84	.85	.86	.87
	635	645	661	680	701	726	752	786	815	846	876	906	953	982	009	034	058	080	*104	*122	*139	*154	*167	*178
30	.43	.44	.45	.47	.48	.50	.52	.54	.57	.59	.61	.63	.67	.69	.71	.73	.75	.77	.79	.81	.82	.83	.84	.86
	612	623	639	658	680	705	732	765	795	825	855	885	932	960	986	011	035	056	*080	*098	*114	*129	*142	*154
45	.41	.42	.43	.45	.46	.48	.50	.53	.55	.57	.59	.62	.65	.67	.69	.71	.73	.75	.77	.78	.80	.81	.82	.83
	585	596	613	633	655	680	707	741	770	800	830	860	906	933	959	984	007	029	*052	*070	*086	*100	*114	*125

JAN-APR 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.39	.40	.41	.43	.44	.46	.48	.51	.53	.55	.57	.59	.63	.65	.67	.69	.71	.73	.75	.76	.77	.79	.80	.81
	555	566	583	603	626	651	677	711	741	771	800	830	875	903	928	953	976	997	*020	*037	*053	*068	*081	*093
15	.37	.38	.39	.40	.42	.44	.46	.48	.50	.53	.55	.57	.60	.63	.65	.66	.68	.70	.72	.73	.75	.76	.77	.78
	520	532	549	569	592	617	644	678	708	737	767	795	841	868	893	917	940	961	984	*001	*017	*031	*044	*056
30	.34	.35	.36	.38	.39	.41	.43	.46	.48	.50	.52	.54	.58	.60	.62	.64	.65	.67	.69	.70	.72	.73	.74	.75
	482	494	511	532	555	580	607	641	670	700	729	758	803	829	854	878	900	921	943	961	977	991	*004	*016
45	.31	.32	.33	.35	.36	.38	.40	.43	.45	.47	.49	.51	.55	.57	.59	.60	.62	.64	.66	.67	.69	.70	.71	.72
	440	452	470	491	514	540	567	600	629	659	688	716	760	786	811	835	857	877	900	917	933	947	961	973
1500	.28	.29	.30	.32	.33	.35	.37	.40	.42	.44	.46	.48	.51	.53	.55	.57	.59	.60	.62	.64	.65	.66	.68	.69
	395	407	426	447	470	495	522	556	585	614	642	671	714	740	765	788	809	830	852	869	885	900	914	926
15	.25	.25	.27	.28	.30	.32	.34	.36	.38	.40	.42	.45	.48	.50	.52	.53	.55	.57	.59	.60	.61	.63	.64	.65
	346	359	378	399	422	448	474	508	537	565	594	622	665	690	715	738	759	779	802	819	835	850	864	877
30	.21	.22	.23	.25	.26	.28	.30	.32	.35	.37	.39	.41	.44	.46	.48	.50	.51	.53	.55	.56	.57	.59	.60	.61
	295	308	327	348	371	397	424	457	485	514	542	570	612	637	661	684	705	726	748	765	781	797	811	824
45	.17	.18	.19	.21	.23	.24	.26	.29	.31	.33	.35	.37	.40	.42	.44	.46	.47	.49	.51	.52	.53	.55	.56	.57
	241	254	273	294	318	343	370	403	431	459	487	514	557	581	605	628	649	669	691	709	725	741	755	769
1600	.13	.14	.15	.17	.19	.20	.22	.25	.27	.29	.31	.33	.36	.38	.40	.41	.43	.44	.46	.48	.49	.50	.52	.53
	185	198	217	238	262	287	313	346	374	402	429	456	498	523	546	569	590	610	632	650	666	682	697	711
15	.09	.10	.11	.13	.14	.16	.18	.20	.22	.24	.26	.28	.31	.33	.35	.37	.38	.40	.42	.43	.45	.46	.47	.48
	126	139	158	179	203	228	254	286	314	342	369	396	437	461	485	507	528	548	571	588	605	621	637	651
30	.05	.06	.07	.08	.10	.12	.14	.16	.18	.20	.22	.24	.27	.29	.30	.32	.34	.35	.37	.39	.40	.41	.43	.44
	065	078	097	119	142	167	193	225	252	279	306	333	374	398	421	443	464	484	507	525	542	559	574	590
45	.00	.01	.03	.04	.06	.07	.09	.11	.13	.15	.17	.19	.22	.24	.26	.27	.29	.31	.32	.34	.35	.36	.38	.39
	003	016	035	056	079	104	129	161	188	215	242	268	308	332	355	378	399	419	442	460	478	494	511	526

JAN-APR 38 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.13	.14	.17	.19	.21	.23	.24	.26	.27	.29	.30	.32	.33	.34
	000	000	000	000	015	039	064	096	122	149	175	201	241	265	298	310	331	352	375	393	411	429	445	462
15	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.10	.12	.14	.16	.18	.19	.21	.22	.24	.25	.27	.28	.29
	000	000	000	000	000	000	000	029	055	081	108	133	173	196	219	241	263	283	307	326	344	362	379	396
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.12	.14	.16	.17	.19	.20	.22	.23	.24
	000	000	000	000	000	000	000	000	000	013	038	064	103	127	150	172	193	214	238	257	276	294	312	329
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.07	.09	.10	.12	.14	.15	.17	.18	.19
	000	000	000	000	000	000	000	000	000	000	000	000	033	056	079	101	123	143	168	183	207	226	244	262
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.05	.07	.09	.10	.12	.13	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	008	030	052	073	098	118	138	157	176	195
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.07	.08	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	002	027	048	068	088	108	127
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	040	060
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	008	012	013	011	007	000	000	000	000	000	000	000	000	000	000	000	000	000
0500	.00	.00	.02	.03	.04	.05	.05	.06	.06	.05	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	002	021	038	051	061	069	073	073	071	067	060	051	039	026	012	000	000	000	000	000	000	000	000
15	.03	.05	.06	.08	.09	.09	.10	.10	.10	.10	.10	.09	.08	.08	.07	.06	.04	.03	.02	.00	.00	.00	.00	.00
	045	066	085	101	114	123	131	134	134	132	128	121	112	101	088	074	058	042	021	003	000	000	000	000
30	.08	.10	.11	.12	.13	.14	.15	.15	.15	.15	.14	.14	.13	.12	.11	.10	.09	.08	.06	.05	.04	.02	.01	.00
	111	132	150	165	177	186	193	196	196	194	189	182	173	163	150	137	122	106	086	068	050	032	014	000
45	.13	.15	.16	.17	.18	.19	.19	.20	.20	.19	.19	.19	.18	.17	.16	.15	.14	.13	.11	.10	.09	.07	.06	.05
	177	198	215	230	241	250	257	259	259	256	252	245	236	225	213	200	185	170	151	134	117	099	081	063
0600	.18	.20	.21	.22	.23	.24	.24	.24	.24	.24	.24	.23	.23	.22	.21	.20	.19	.18	.16	.15	.14	.12	.11	.10
	244	264	281	295	306	314	320	322	322	319	314	307	299	288	277	264	250	235	216	200	183	166	149	131
15	.23	.25	.26	.27	.28	.28	.29	.29	.29	.29	.29	.28	.27	.27	.26	.25	.24	.23	.21	.20	.19	.17	.16	.15
	310	330	346	359	370	378	383	385	385	382	377	370	362	352	340	328	314	300	282	266	250	233	217	200
30	.28	.29	.31	.32	.33	.33	.34	.34	.34	.34	.33	.33	.32	.31	.31	.30	.29	.27	.26	.25	.24	.23	.21	.20
	377	395	411	424	434	441	446	448	447	444	439	433	424	415	403	391	378	364	347	332	316	300	284	268
45	.33	.34	.36	.37	.37	.38	.38	.38	.38	.38	.38	.37	.37	.36	.35	.34	.33	.32	.31	.30	.29	.27	.26	.25
	442	460	475	488	497	504	509	510	509	506	501	495	487	477	466	455	442	429	412	397	382	367	351	335

MAY-AUG 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700	.38	.39	.40	.41	.42	.43	.43	.43	.43	.43	.43	.42	.41	.41	.40	.39	.38	.37	.36	.35	.34	.32	.31	.30
	507	524	539	551	560	566	570	571	570	567	562	556	548	539	529	517	505	492	476	462	448	433	418	402
15	.42	.44	.45	.46	.47	.47	.47	.48	.48	.47	.47	.47	.46	.45	.45	.44	.43	.42	.41	.39	.38	.37	.36	.35
	571	587	601	612	621	627	631	632	630	627	623	616	609	600	590	579	567	555	539	525	512	498	483	467
30	.47	.48	.49	.50	.51	.52	.52	.52	.52	.52	.52	.51	.50	.50	.49	.48	.47	.46	.45	.44	.43	.42	.41	.40
	633	649	662	673	681	686	690	691	689	686	682	675	668	659	650	639	628	616	601	588	575	561	546	531
45	.52	.53	.54	.55	.55	.56	.56	.56	.56	.56	.56	.55	.55	.54	.54	.53	.52	.51	.50	.49	.48	.47	.45	.44
	693	708	721	731	739	744	747	748	747	744	739	733	726	717	708	698	687	676	662	649	636	623	609	594
0800	.56	.57	.58	.59	.60	.60	.60	.61	.61	.60	.60	.60	.59	.58	.58	.57	.56	.55	.54	.53	.52	.51	.50	.49
	751	766	778	788	795	800	803	803	802	799	794	789	782	774	765	755	745	734	720	708	696	682	669	654
15	.60	.61	.62	.63	.64	.64	.64	.65	.65	.64	.64	.64	.63	.63	.62	.61	.60	.60	.58	.57	.56	.55	.54	.53
	807	822	833	843	849	854	857	857	855	852	848	842	836	828	820	811	801	790	777	765	753	740	727	713
30	.64	.65	.66	.67	.68	.68	.68	.68	.68	.68	.68	.68	.67	.67	.66	.65	.64	.64	.62	.62	.61	.59	.58	.57
	861	875	886	895	901	905	908	908	907	904	899	894	888	880	872	863	854	844	831	820	808	795	782	768
45	.68	.69	.70	.71	.71	.72	.72	.72	.72	.72	.72	.71	.71	.70	.70	.69	.68	.67	.66	.65	.64	.63	.62	.61
	912	925	936	944	950	954	957	957	955	952	948	943	937	930	922	914	905	895	883	872	860	848	835	821
0900	.71	.72	.73	.74	.75	.75	.75	.76	.76	.75	.75	.75	.74	.74	.73	.73	.72	.71	.70	.69	.68	.67	.66	.65
	960	973	983	991	996	*000	*002	*002	*001	998	994	990	984	977	970	962	953	944	932	921	910	898	885	871
15	.75	.76	.77	.77	.78	.78	.79	.79	.79	.79	.78	.78	.78	.77	.77	.76	.75	.75	.74	.73	.72	.71	.70	.68
	*005	*017	*027	*034	*040	*043	*045	*045	*044	*041	*038	*033	*029	*021	*014	*007	998	990	978	968	957	945	932	918
30	.78	.79	.80	.80	.81	.81	.82	.82	.82	.82	.81	.81	.81	.80	.80	.79	.78	.78	.77	.76	.75	.74	.73	.72
	*046	*058	*067	*075	*080	*083	*085	*085	*084	*081	*078	*074	*068	*062	*056	*049	*041	*032	*021	*011	*000	988	976	962
45	.81	.82	.83	.83	.84	.84	.84	.85	.85	.84	.84	.84	.84	.83	.83	.82	.81	.81	.80	.79	.78	.77	.76	.75
	*084	*096	*105	*112	*117	*120	*122	*122	*121	*118	*115	*111	*106	*100	*094	*087	*080	*071	*061	*051	*040	*028	*016	*002

MAY-AUG 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.83	.84	.85	.86	.86	.87	.87	.87	.87	.87	.87	.97	.86	.86	.85	.85	.84	.83	.82	.82	.81	.80	.78	.77
	*119	*130	*138	*145	*150	*153	*155	*155	*154	*152	*149	*145	*140	*135	*129	*122	*115	*107	*097	*087	*079	*065	*052	*038
15	.85	.86	.87	.88	.88	.89	.89	.89	.89	.89	.89	.89	.88	.88	.88	.87	.86	.86	.85	.84	.83	.82	.81	.80
	*149	*160	*168	*175	*179	*182	*184	*184	*183	*182	*179	*175	*171	*166	*160	*154	*147	*139	*129	*120	*109	*097	*085	*071
30	.87	.88	.89	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.90	.90	.89	.89	.88	.87	.86	.85	.84	.83	.82
	*176	*186	*194	*200	*205	*208	*210	*210	*209	*208	*205	*202	*198	*193	*188	*182	*175	*168	*158	*148	*138	*126	*113	*099
45	.89	.90	.91	.91	.92	.92	.93	.93	.93	.93	.93	.93	.92	.92	.92	.91	.90	.90	.89	.88	.87	.86	.85	.84
	*199	*208	*216	*222	*227	*230	*232	*232	*232	*230	*228	*225	*221	*217	*212	*206	*200	*192	*182	*173	*163	*151	*138	*123
1100	.90	.91	.92	.93	.93	.94	.94	.94	.94	.94	.94	.94	.94	.93	.93	.93	.92	.91	.90	.90	.89	.88	.86	.85
	*217	*226	*234	*240	*245	*248	*250	*250	*250	*249	*247	*244	*241	*237	*232	*226	*220	*213	*203	*194	*183	*171	*158	*143
15	.92	.92	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.93	.93	.92	.91	.90	.89	.88	.86
	*231	*240	*248	*254	*258	*261	*264	*264	*264	*263	*262	*259	*256	*252	*248	*243	*236	*229	*220	*210	*200	*188	*174	*159
30	.92	.93	.94	.95	.95	.95	.96	.96	.96	.96	.96	.96	.96	.95	.95	.95	.94	.94	.93	.92	.91	.90	.88	.87
	*241	*250	*257	*263	*268	*271	*273	*274	*275	*274	*272	*270	*268	*264	*260	*255	*249	*242	*232	*223	*212	*200	*186	*170
45	.93	.94	.94	.95	.95	.96	.96	.96	.97	.97	.97	.97	.96	.96	.96	.95	.95	.94	.93	.92	.91	.90	.89	.88
	*247	*255	*263	*269	*273	*277	*279	*280	*281	*280	*279	*277	*275	*272	*268	*263	*257	*250	*240	*231	*220	*207	*193	*177
1200	.93	.94	.94	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.96	.96	.96	.95	.94	.94	.93	.92	.90	.89	.88
	*248	*256	*264	*270	*274	*278	*281	*282	*283	*283	*282	*280	*278	*275	*271	*267	*261	*254	*244	*234	*223	*210	*196	*180
15	.93	.93	.94	.95	.95	.96	.96	.96	.97	.97	.97	.97	.97	.96	.96	.96	.95	.94	.93	.93	.92	.90	.89	.88
	*244	*253	*261	*267	*271	*275	*278	*280	*281	*281	*281	*279	*277	*274	*271	*266	*261	*254	*244	*234	*222	*209	*194	*178
30	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.94	.93	.92	.91	.90	.89	.87
	*237	*246	*253	*259	*264	*268	*272	*274	*275	*275	*275	*274	*272	*270	*266	*262	*256	*249	*239	*229	*217	*204	*188	*171
45	.91	.92	.93	.93	.94	.94	.95	.95	.95	.96	.96	.96	.95	.95	.95	.95	.94	.93	.92	.92	.90	.89	.88	.86
	*225	*234	*241	*248	*253	*257	*261	*263	*265	*265	*265	*265	*263	*261	*257	*253	*247	*240	*230	*220	*208	*194	*178	*160

MAY-AUG 38 N TABLE 8-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

**** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	MAY 5	10	15	20	25	30	JUN 5	10	15	20	25	30	JUL 5	10	15	20	25	30	AUG 5	10	15	20	25	30
1300	.90	.91	.92	.92	.93	.93	.94	.94	.94	.94	.95	.95	.94	.94	.94	.94	.93	.92	.91	.91	.89	.88	.87	.85
	*209	*218	*225	*232	*237	*242	*246	*248	*250	*251	*252	*251	*250	*248	*245	*240	*235	*227	*217	*205	*194	*180	*163	*145
15	.88	.89	.90	.91	.91	.92	.92	.93	.93	.93	.93	.93	.93	.93	.93	.92	.92	.91	.90	.89	.88	.87	.85	.84
	*189	*198	*205	*212	*218	*222	*227	*230	*232	*234	*234	*234	*233	*231	*228	*223	*218	*210	*200	*189	*176	*161	*144	*125
30	.87	.87	.88	.89	.90	.90	.91	.91	.91	.91	.92	.92	.92	.91	.91	.91	.90	.90	.89	.88	.86	.85	.84	.82
	*164	*173	*181	*188	*194	*199	*204	*208	*210	*212	*213	*213	*212	*210	*207	*202	*197	*189	*178	*167	*154	*138	*121	*101
45	.84	.85	.86	.87	.87	.88	.89	.89	.89	.90	.90	.90	.90	.90	.89	.89	.88	.88	.87	.86	.84	.83	.82	.80
	*136	*145	*153	*160	*167	*172	*178	*181	*184	*186	*187	*188	*187	*185	*182	*178	*172	*164	*153	*141	*127	*111	*093	*073
1400	.82	.83	.84	.84	.85	.86	.86	.87	.87	.87	.88	.88	.88	.87	.87	.87	.86	.85	.84	.83	.82	.81	.79	.77
	*103	*113	*121	*129	*136	*141	*147	*151	*155	*157	*159	*159	*158	*157	*154	*149	*143	*135	*123	*111	*097	*081	*062	*041
15	.79	.80	.81	.82	.83	.83	.84	.84	.85	.85	.85	.85	.85	.85	.85	.84	.84	.83	.82	.81	.80	.78	.77	.75
	*067	*077	*086	*094	*101	*107	*113	*118	*121	*124	*126	*127	*126	*125	*122	*117	*111	*102	*090	*078	*063	*046	*027	*005
30	.76	.77	.78	.79	.80	.80	.81	.81	.82	.82	.82	.82	.82	.82	.82	.82	.81	.80	.79	.78	.77	.75	.74	.72
	*028	*038	*047	*055	*063	*069	*076	*081	*085	*088	*090	*091	*091	*089	*086	*081	*075	*066	*053	*040	*025	*008	988	966
45	.73	.74	.75	.76	.77	.77	.78	.78	.79	.79	.79	.79	.79	.79	.79	.79	.78	.77	.76	.75	.74	.72	.71	.69
	984	995	*004	*013	*021	*028	*036	*041	*045	*048	*051	*052	*052	*050	*047	*042	*035	*026	*013	*000	984	966	945	922
1500	.70	.71	.72	.72	.73	.74	.75	.75	.76	.76	.76	.76	.76	.76	.76	.75	.75	.74	.73	.72	.70	.69	.67	.65
	938	949	959	968	976	984	992	998	*002	*006	*008	*010	*009	*009	*005	*000	993	983	970	955	939	920	899	876
15	.66	.67	.68	.69	.70	.70	.71	.72	.72	.73	.73	.73	.73	.73	.72	.72	.71	.71	.69	.68	.67	.65	.63	.61
	889	900	910	920	929	937	945	951	956	960	963	964	964	963	959	954	947	937	923	908	891	872	850	826
30	.62	.63	.64	.65	.66	.67	.67	.68	.68	.69	.69	.69	.69	.69	.69	.68	.68	.67	.66	.64	.63	.61	.60	.58
	836	848	859	869	879	887	896	902	908	912	915	917	917	915	911	906	898	888	873	856	841	821	798	773
45	.58	.59	.60	.61	.62	.63	.64	.64	.65	.65	.65	.65	.65	.65	.65	.65	.64	.63	.62	.60	.59	.57	.55	.53
	782	794	805	816	826	835	844	851	857	861	864	866	866	864	861	855	847	837	821	803	787	767	743	718

MAY-AUG 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1600	.54	.55	.56	.57	.58	.59	.59	.60	.61	.61	.61	.61	.61	.61	.61	.61	.60	.59	.58	.56	.55	.53	.51	.49
	724	737	749	760	771	780	790	797	803	808	812	813	813	811	808	802	793	783	767	750	731	710	686	660
15	.49	.51	.52	.53	.54	.54	.55	.56	.56	.57	.57	.57	.57	.57	.57	.56	.56	.55	.53	.52	.50	.49	.47	.45
	665	678	691	703	713	723	734	742	748	753	757	758	758	756	752	746	737	726	710	693	673	651	627	600
30	.45	.46	.47	.48	.49	.50	.51	.52	.52	.53	.53	.53	.53	.53	.53	.52	.51	.50	.49	.48	.46	.44	.42	.40
	604	618	631	643	654	665	676	684	691	696	700	702	702	700	695	689	680	668	651	633	613	590	565	537
45	.40	.41	.43	.44	.45	.45	.46	.47	.48	.48	.48	.49	.49	.48	.48	.48	.47	.46	.44	.43	.41	.39	.37	.35
	541	556	569	582	594	605	617	625	632	638	641	643	643	641	636	629	620	608	590	572	551	528	502	473
1700	.35	.37	.38	.39	.40	.41	.42	.43	.43	.44	.44	.44	.44	.44	.44	.43	.42	.41	.40	.38	.37	.35	.33	.30
	477	492	506	520	532	544	556	565	572	578	581	583	583	581	576	569	559	546	528	509	489	464	437	408
15	.31	.32	.33	.34	.35	.36	.37	.38	.39	.39	.39	.40	.39	.39	.39	.38	.37	.36	.35	.33	.32	.30	.28	.25
	412	427	442	456	469	481	494	503	511	517	521	523	522	520	515	507	497	484	464	445	423	398	371	341
30	.26	.27	.28	.29	.30	.31	.33	.33	.34	.34	.35	.35	.35	.35	.34	.34	.33	.32	.30	.29	.27	.25	.23	.20
	346	362	377	392	406	418	431	441	449	455	459	461	460	458	452	444	434	420	400	380	357	332	304	274
45	.21	.22	.23	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30	.29	.29	.28	.27	.25	.24	.22	.20	.18	.15
	279	296	312	327	342	355	368	378	386	392	397	398	398	395	389	381	370	356	335	314	291	265	237	206
1800	.16	.17	.18	.20	.21	.22	.23	.24	.24	.25	.25	.25	.25	.25	.25	.24	.23	.22	.20	.19	.17	.15	.13	.10
	213	230	247	263	277	291	305	315	323	330	334	336	335	332	326	317	305	291	269	248	224	198	169	138
15	.11	.12	.14	.15	.16	.17	.18	.19	.20	.20	.21	.21	.21	.20	.20	.19	.18	.17	.15	.14	.12	.10	.08	.05
	146	164	181	198	213	227	242	252	261	267	271	273	272	269	262	253	241	226	204	182	158	131	101	069
30	.06	.07	.09	.10	.11	.12	.13	.14	.15	.15	.16	.16	.16	.16	.15	.14	.13	.12	.10	.09	.07	.05	.03	.00
	080	098	116	133	149	163	179	189	198	205	209	210	210	206	199	190	177	161	138	116	091	063	033	001
45	.01	.03	.04	.05	.06	.08	.09	.10	.10	.11	.11	.11	.11	.11	.10	.10	.09	.07	.06	.04	.02	.00	.00	.00
	014	033	052	069	086	101	116	127	136	143	147	148	147	143	136	126	113	097	074	051	025	000	000	000

MAY-AUG 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900		.00	.00	.00	.01	.02	.03	.04	.05	.06	.06	.07	.07	.07	.06	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00
		000	000	000	007	023	039	055	066	075	082	086	087	086	081	074	064	050	033	009	000	000	000	000	000
15		.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	006	015	021	026	027	025	021	013	002	000	000	000	000	000	000	000	000
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 38 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	041	022	003	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.08	.07	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	110	091	073	053	034	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.13	.12	.11	.09	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	179	161	142	123	104	083	062	040	018	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.14	.13	.11	.10	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	247	230	212	193	173	153	132	110	087	064	039	015	000	000	000	000	000	000	000	000	000	000	000	000
45	.23	.22	.21	.19	.18	.16	.15	.13	.11	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	315	298	280	262	242	222	201	179	156	132	107	082	052	026	001	000	000	000	000	000	000	000	000	000
0700	.28	.27	.26	.24	.23	.21	.20	.18	.16	.14	.13	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00
	382	365	348	329	310	290	269	246	223	199	174	149	118	092	067	042	018	000	000	000	000	000	000	000
15	.33	.32	.31	.29	.28	.26	.24	.23	.21	.19	.17	.15	.13	.11	.09	.08	.06	.04	.03	.02	.00	.00	.00	.00
	448	432	414	396	377	356	335	313	289	265	240	214	183	157	131	106	082	060	039	021	005	000	000	000
30	.38	.37	.35	.34	.32	.31	.29	.27	.26	.24	.22	.20	.18	.16	.14	.12	.10	.09	.07	.06	.05	.04	.03	.03
	513	496	479	461	441	421	400	377	353	329	303	277	246	219	194	168	144	122	101	083	067	055	045	039
45	.43	.41	.40	.39	.37	.35	.34	.32	.30	.28	.26	.24	.22	.20	.18	.16	.15	.13	.11	.10	.09	.08	.08	.07
	575	559	542	524	504	484	462	439	415	391	365	339	307	280	254	229	205	182	161	143	128	115	106	100

SEP-DEC 38 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIFES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.47	.46	.44	.43	.41	.40	.38	.36	.35	.33	.31	.29	.26	.24	.22	.20	.19	.17	.16	.14	.13	.12	.12	.11
	636	620	603	584	565	544	523	499	475	450	424	396	365	339	312	287	263	240	220	202	186	174	165	160
15	.52	.50	.49	.47	.46	.44	.42	.41	.39	.37	.35	.33	.30	.29	.26	.24	.23	.21	.20	.19	.17	.16	.16	.15
	694	678	661	643	623	602	580	557	533	507	481	454	422	395	368	342	318	296	275	257	242	230	222	217
30	.56	.54	.53	.51	.50	.48	.46	.45	.43	.41	.39	.37	.34	.32	.30	.28	.26	.25	.23	.22	.21	.20	.20	.19
	750	734	717	698	679	658	635	612	587	561	535	508	479	448	421	395	371	349	328	311	298	284	276	272
45	.60	.58	.57	.55	.54	.52	.50	.48	.46	.44	.42	.40	.38	.36	.34	.32	.30	.28	.27	.26	.25	.24	.23	.23
	803	787	770	751	731	710	688	664	639	613	586	558	525	498	471	445	421	399	379	361	347	336	328	324
0900	.63	.62	.61	.59	.57	.56	.54	.52	.50	.48	.46	.44	.41	.39	.37	.35	.33	.32	.30	.29	.28	.27	.27	.26
	853	837	820	801	781	759	736	712	687	660	633	606	572	545	518	492	468	446	426	409	395	384	377	374
15	.67	.65	.64	.62	.61	.59	.57	.55	.53	.51	.49	.47	.44	.42	.40	.38	.36	.35	.33	.32	.31	.30	.30	.30
	900	884	866	847	827	805	782	757	732	705	677	650	616	588	562	536	512	490	470	453	440	429	423	420
30	.70	.69	.67	.66	.64	.62	.60	.58	.56	.54	.52	.50	.47	.45	.43	.41	.39	.38	.36	.35	.34	.33	.33	.33
	944	927	909	890	869	847	824	799	773	746	718	690	656	628	602	576	552	530	511	494	481	471	465	463
45	.73	.72	.70	.68	.67	.65	.63	.61	.59	.57	.54	.52	.50	.48	.46	.44	.42	.40	.39	.38	.37	.36	.36	.36
	984	967	949	929	908	886	862	836	810	783	755	726	692	665	638	612	588	567	548	532	519	510	504	503
1000	.76	.74	.73	.71	.69	.67	.65	.63	.61	.59	.57	.55	.53	.50	.48	.46	.44	.43	.41	.40	.39	.39	.38	.38
	*020	*003	984	964	943	920	896	870	843	816	787	759	725	697	670	645	621	600	581	565	553	545	540	539
15	.78	.77	.75	.73	.71	.70	.68	.65	.63	.61	.59	.57	.54	.52	.50	.48	.46	.45	.43	.42	.41	.41	.40	.40
	*052	*035	*016	996	974	950	926	900	872	844	816	787	753	725	698	673	650	629	611	595	584	576	571	571
30	.80	.79	.77	.75	.73	.71	.69	.67	.65	.63	.61	.58	.56	.54	.52	.50	.48	.46	.45	.44	.43	.43	.42	.42
	*080	*062	*043	*023	*000	977	951	925	897	869	840	811	777	749	723	698	674	654	636	621	610	603	599	599
45	.82	.80	.79	.77	.75	.73	.71	.69	.67	.64	.62	.60	.57	.55	.53	.51	.49	.48	.47	.46	.45	.44	.44	.44
	*104	*086	*066	*045	*023	998	973	946	918	889	860	831	797	769	742	718	695	675	657	643	633	626	623	624

SEP-DEC 38 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.83	.82	.80	.78	.76	.74	.72	.70	.68	.65	.63	.61	.58	.56	.54	.52	.51	.49	.48	.47	.46	.46	.45	.46
	*124	*105	*085	*064	*040	*016	990	962	934	905	876	847	812	784	758	733	711	691	674	661	651	644	642	644
15	.84	.83	.81	.79	.77	.75	.73	.71	.69	.66	.64	.62	.59	.57	.55	.53	.51	.50	.49	.48	.47	.47	.46	.47
	*139	*120	*100	*077	*054	*029	*002	974	946	916	887	858	823	795	769	745	723	703	687	674	665	659	657	660
30	.85	.84	.82	.80	.78	.76	.74	.71	.69	.67	.64	.62	.60	.57	.55	.54	.52	.51	.49	.48	.48	.47	.47	.47
	*150	*130	*109	*087	*063	*037	*010	982	953	923	893	864	836	809	786	762	740	721	705	693	684	679	678	681
45	.86	.84	.82	.80	.78	.76	.74	.72	.69	.67	.65	.62	.60	.58	.56	.54	.52	.51	.50	.49	.48	.48	.48	.48
	*156	*136	*115	*092	*067	*041	*013	984	955	925	895	866	839	814	788	765	743	725	709	698	689	685	685	688
1200	.86	.84	.82	.80	.78	.76	.74	.72	.69	.67	.64	.62	.59	.57	.55	.54	.52	.51	.50	.49	.48	.48	.48	.48
	*158	*138	*116	*092	*066	*040	*012	983	953	923	893	863	829	802	776	753	732	714	699	688	680	677	677	681
15	.86	.84	.82	.80	.78	.76	.73	.71	.69	.66	.64	.62	.59	.57	.55	.53	.52	.50	.49	.48	.48	.48	.48	.48
	*155	*134	*112	*087	*061	*034	*006	976	946	916	886	856	822	795	769	746	726	708	694	684	677	674	675	680
30	.85	.83	.81	.79	.77	.75	.73	.70	.68	.65	.63	.61	.58	.56	.54	.52	.51	.50	.49	.48	.47	.47	.47	.48
	*148	*127	*103	*078	*052	*024	995	965	935	904	874	844	810	783	758	735	716	699	685	675	669	667	668	674
45	.84	.82	.80	.78	.76	.74	.72	.69	.67	.64	.62	.60	.57	.55	.53	.51	.50	.49	.48	.47	.47	.46	.47	.47
	*136	*114	*091	*065	*038	*009	980	950	919	888	858	828	794	767	743	720	701	685	672	662	657	655	657	664
1300	.83	.81	.79	.77	.75	.72	.70	.68	.65	.63	.60	.58	.56	.53	.52	.50	.49	.47	.46	.46	.45	.45	.45	.46
	*120	*098	*073	*047	*019	990	960	930	899	868	837	807	773	747	723	701	682	666	654	645	640	639	642	649
15	.82	.80	.78	.75	.73	.71	.68	.66	.63	.61	.59	.56	.54	.52	.50	.48	.47	.46	.45	.44	.44	.44	.44	.45
	*100	*077	*052	*025	996	967	936	905	874	843	812	782	749	722	698	677	659	643	632	624	619	619	623	630
30	.80	.78	.76	.73	.71	.69	.66	.64	.61	.59	.57	.54	.52	.50	.48	.46	.45	.44	.43	.42	.42	.42	.42	.43
	*075	*051	*026	998	969	939	908	877	845	814	783	753	720	694	670	649	631	617	606	598	595	595	599	607
45	.78	.76	.73	.71	.69	.66	.64	.61	.59	.56	.54	.52	.49	.47	.46	.44	.43	.42	.41	.40	.40	.40	.40	.41
	*046	*022	995	967	938	907	876	844	812	780	750	720	687	661	638	617	600	586	575	569	566	567	572	580

SEP-DEC 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.75	.73	.71	.69	.66	.64	.61	.59	.56	.54	.51	.49	.47	.45	.43	.41	.40	.39	.38	.38	.38	.38	.38	.39
	*014	988	961	932	902	871	839	807	775	743	712	683	650	624	602	582	565	551	541	535	533	535	540	549
15	.72	.70	.68	.66	.63	.61	.58	.56	.53	.51	.48	.46	.44	.42	.40	.39	.37	.36	.36	.35	.35	.35	.36	.36
	977	951	923	894	863	831	799	766	734	702	671	642	609	584	562	542	526	513	504	498	497	499	505	515
30	.69	.67	.65	.63	.60	.58	.55	.53	.50	.48	.45	.43	.41	.39	.37	.36	.34	.34	.33	.32	.32	.33	.33	.34
	936	910	881	851	820	788	755	722	689	657	627	597	565	540	518	499	483	471	462	458	456	459	466	476
45	.66	.64	.62	.59	.57	.54	.52	.49	.47	.44	.42	.40	.37	.35	.34	.32	.31	.30	.30	.29	.29	.29	.30	.31
	892	865	836	805	773	740	707	674	641	609	579	549	517	493	471	453	438	426	418	413	413	416	423	434
1500	.63	.60	.58	.56	.53	.51	.48	.45	.43	.40	.38	.36	.35	.32	.30	.29	.28	.27	.26	.26	.26	.26	.27	.28
	845	817	787	756	723	690	657	623	590	558	527	498	466	442	421	403	389	377	370	366	366	370	378	389
15	.59	.57	.54	.52	.49	.47	.44	.41	.39	.36	.34	.32	.30	.28	.26	.25	.24	.23	.23	.22	.22	.23	.23	.24
	794	765	735	703	670	636	603	569	536	504	473	444	412	389	368	351	337	326	319	316	316	321	329	340
30	.55	.53	.50	.48	.45	.42	.40	.37	.35	.32	.30	.28	.26	.24	.22	.21	.20	.19	.19	.19	.19	.19	.20	.20
	741	711	680	648	614	580	546	512	479	446	416	387	356	333	312	295	282	272	265	263	264	269	277	289
45	.51	.48	.46	.43	.41	.38	.36	.33	.30	.28	.26	.24	.21	.20	.18	.17	.16	.15	.15	.15	.15	.15	.16	.17
	684	654	622	589	555	521	486	452	419	387	356	328	297	274	254	238	225	215	209	207	209	214	223	235
1600	.46	.44	.42	.39	.36	.34	.31	.28	.26	.24	.21	.19	.17	.15	.14	.13	.12	.11	.11	.11	.11	.11	.12	.13
	625	595	562	529	494	460	425	390	357	325	294	266	235	213	194	178	165	156	151	148	151	157	166	178
15	.42	.39	.37	.34	.32	.29	.26	.24	.21	.19	.17	.15	.12	.11	.09	.08	.07	.07	.06	.06	.07	.07	.08	.08
	564	533	500	466	431	396	361	326	293	261	230	202	172	150	131	116	104	095	090	089	091	097	107	119
30	.37	.35	.32	.30	.27	.24	.22	.19	.17	.14	.12	.10	.08	.06	.05	.04	.03	.02	.02	.02	.02	.03	.03	.04
	501	469	436	401	366	331	295	261	227	195	165	137	107	086	067	052	040	032	028	027	030	036	046	058
45	.32	.30	.27	.25	.22	.19	.17	.14	.12	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	437	404	370	335	299	264	228	193	160	128	098	070	041	019	001	000	000	000	000	000	000	000	000	000

SEP-DEC 38 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.25	.22	.20	.17	.14	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	371	337	303	267	231	195	160	125	091	059	030	002	000	000	000	000	000	000	000	000	000	000	000	000
15	.23	.20	.17	.15	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	303	270	235	199	162	126	090	055	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	235	201	166	129	093	056	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	166	132	096	059	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	097	062	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	028	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 38 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	005								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.01	.04	.06								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	020	048	074								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.02	.04	.07	.09	.11								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	026	060	090	117	143								
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.02		.05	.07	.10	.12	.14	.16								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	025		066	099	131	160	187	212								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.02	.05	.07		.10	.13	.15	.17	.19	.21								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	027	062	097		138	171	202	230	257	281								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.02	.05	.07	.10	.12		.15	.18	.20	.22	.24	.26								
	000	000	000	000	000	000	000	000	000	000	000	000		000	030	065	100	135	170		210	242	272	301	326	350								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01		.05	.07	.10	.13	.15	.18		.21	.23	.25	.27	.29	.31								
	000	000	000	000	000	000	000	000	000	000	000	018		069	103	137	172	207	241		281	313	342	370	395	418								
0700	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.07		.10	.13	.15	.18	.20	.23		.26	.28	.30	.32	.34	.36								
	000	000	000	000	000	000	000	000	009	034	061	090		141	175	209	244	278	312		352	383	412	439	463	485								
15	.00	.00	.00	.00	.01	.01	.03	.04	.06	.07	.09	.12		.15	.18	.20	.23	.25	.28		.31	.33	.35	.37	.39	.41								
	000	000	000	001	009	020	035	057	079	104	132	161		212	246	280	315	349	382		421	451	480	506	530	551								
30	.04	.04	.04	.05	.05	.06	.07	.09	.11	.12	.14	.17		.20	.23	.25	.28	.30	.33		.36	.38	.40	.42	.44	.46								
	063	061	062	067	075	087	103	126	148	173	201	231		282	316	350	384	418	451		489	518	546	572	595	615								
45	.09	.09	.09	.09	.10	.11	.12	.14	.15	.17	.19	.21		.25	.28	.30	.33	.35	.38		.41	.43	.45	.47	.49	.50								
	126	125	126	132	141	153	169	193	215	241	269	299		350	384	418	451	485	517		555	584	611	636	658	678								

JAN-APR 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.13	.13	.13	.14	.14	.15	.17	.18	.20	.22	.24	.26	.30	.32	.35	.37	.40	.42	.45	.47	.50	.51	.53	.55
	187	186	189	194	204	217	234	258	281	307	335	365	411	450	484	517	550	582	619	647	674	698	719	738
15	.17	.17	.18	.18	.19	.20	.21	.23	.25	.26	.29	.31	.35	.37	.40	.42	.45	.47	.50	.52	.54	.56	.58	.59
	246	246	249	255	265	279	296	321	344	371	399	429	481	514	547	580	613	644	680	703	734	757	778	797
30	.21	.21	.22	.22	.23	.24	.25	.27	.29	.31	.33	.35	.39	.41	.44	.46	.49	.51	.54	.56	.58	.60	.62	.63
	303	303	306	313	324	338	356	381	405	432	461	491	542	575	608	641	673	704	739	767	792	814	835	852
45	.25	.25	.26	.26	.27	.28	.29	.31	.33	.35	.37	.39	.43	.46	.48	.51	.53	.56	.58	.60	.62	.64	.66	.67
	357	357	361	369	380	395	413	439	464	491	520	550	601	634	667	699	731	761	796	822	847	869	888	905
0900	.29	.29	.29	.30	.31	.32	.33	.35	.37	.39	.41	.43	.47	.50	.52	.55	.57	.59	.62	.64	.66	.68	.69	.71
	408	409	413	422	434	449	468	494	519	546	576	606	657	690	722	754	786	815	849	875	898	920	939	955
15	.32	.32	.33	.33	.34	.35	.37	.39	.41	.43	.45	.47	.51	.54	.56	.58	.61	.63	.66	.68	.70	.71	.73	.74
	456	457	462	471	484	500	519	546	572	599	628	659	710	742	775	806	837	866	899	924	947	968	986	*002
30	.35	.36	.36	.37	.38	.39	.40	.42	.44	.46	.48	.51	.55	.57	.60	.62	.64	.67	.69	.71	.73	.75	.76	.77
	500	502	508	518	531	548	567	595	621	648	678	709	759	792	823	855	885	913	945	970	992	*012	*030	*045
45	.38	.38	.39	.40	.41	.42	.43	.46	.47	.50	.52	.54	.58	.60	.63	.65	.67	.70	.72	.74	.76	.78	.79	.80
	541	544	550	561	575	592	612	640	666	694	724	755	805	837	868	899	929	957	988	*012	*034	*053	*070	*085
1000	.41	.41	.42	.42	.44	.45	.46	.48	.50	.53	.55	.57	.61	.63	.66	.68	.70	.73	.75	.77	.79	.80	.82	.83
	578	582	589	600	614	632	653	682	708	736	766	797	847	879	910	940	969	996	*027	*050	*071	*090	*106	*120
15	.43	.44	.44	.45	.46	.47	.49	.51	.53	.55	.57	.60	.64	.66	.68	.71	.73	.75	.78	.80	.81	.83	.84	.85
	612	616	623	635	650	669	690	719	746	774	804	835	885	916	947	977	*005	*032	*062	*084	*105	*123	*139	*152
30	.45	.46	.46	.47	.48	.50	.51	.53	.55	.58	.60	.62	.66	.68	.71	.73	.75	.77	.80	.82	.83	.85	.86	.87
	641	645	654	666	682	701	723	752	779	808	838	869	919	950	980	*009	*037	*063	*092	*114	*134	*152	*167	*180
45	.47	.47	.48	.49	.50	.52	.53	.56	.58	.60	.62	.64	.68	.71	.73	.75	.77	.79	.82	.81	.85	.87	.88	.89
	666	671	681	694	710	729	752	782	809	838	868	898	948	979	*008	*037	*064	*090	*118	*140	*159	*176	*191	*203

JAN-APR 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

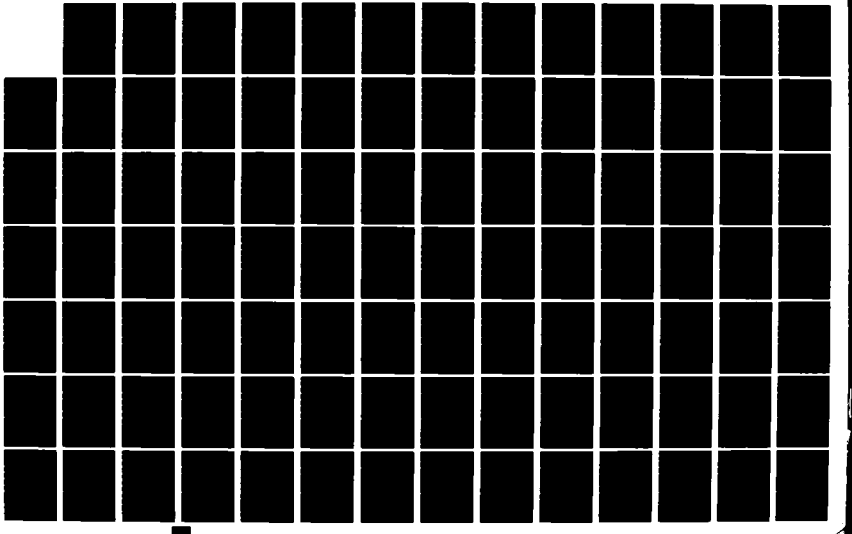
MST	DATE																																	
	JAN							FEB						MAR										APR											
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
1100	.49	.49	.50	.51	.52	.53	.55	.57	.59	.62	.64	.66		.70	.72	.75	.77	.79	.81		.83	.85	.87	.88	.90	.91								
	687	693	703	716	733	753	776	807	834	863	893	924		973	003	033	061	088	113		140	161	180	196	210	223								
15	.50	.50	.51	.52	.53	.55	.56	.59	.61	.63	.65	.68		.71	.74	.76	.78	.80	.82		.85	.86	.88	.89	.91	.92								
	704	710	721	735	752	773	796	827	855	884	914	944		993	023	052	080	106	131		158	178	196	212	226	238								
30	.51	.51	.52	.53	.54	.56	.58	.60	.62	.64	.66	.69		.73	.75	.77	.79	.81	.83		.86	.87	.89	.90	.91	.93								
	716	723	734	749	767	788	812	843	871	900	930	960		003	038	067	094	120	144		170	190	207	223	236	248								
45	.51	.52	.53	.54	.55	.57	.58	.61	.63	.65	.67	.70		.73	.76	.78	.80	.82	.84		.86	.88	.89	.91	.92	.93								
	724	731	743	759	777	799	823	854	882	912	942	972		020	049	077	104	129	153		178	197	214	230	243	254								
1200	.51	.52	.53	.54	.55	.57	.59	.61	.63	.66	.68	.70		.74	.76	.78	.80	.82	.84		.86	.88	.89	.91	.92	.93								
	727	735	748	764	783	805	829	861	889	918	948	979		026	055	083	109	134	156		181	200	217	231	244	255								
15	.51	.52	.53	.54	.55	.57	.59	.61	.63	.66	.68	.70		.74	.76	.78	.80	.82	.84		.86	.88	.89	.91	.92	.93								
	726	734	747	764	784	806	831	863	891	921	950	980		028	056	083	109	133	156		180	198	214	229	241	252								
30	.51	.52	.53	.54	.55	.57	.59	.61	.63	.65	.68	.70		.74	.76	.78	.80	.82	.84		.86	.87	.89	.90	.91	.92								
	720	729	743	760	780	803	828	860	889	918	948	978		024	052	079	104	128	150		174	192	208	222	234	244								
45	.50	.51	.52	.53	.55	.56	.58	.61	.63	.65	.67	.69		.73	.75	.77	.79	.81	.83		.85	.87	.88	.89	.90	.91								
	710	719	734	751	772	795	820	853	881	911	940	970		016	044	070	095	118	140		163	180	195	210	222	232								
1300	.49	.50	.51	.52	.54	.55	.57	.60	.62	.64	.66	.69		.72	.74	.76	.78	.80	.82		.84	.85	.87	.88	.89	.90								
	696	705	720	738	759	783	808	841	870	899	928	958		003	030	056	081	104	125		148	165	180	193	205	216								
15	.48	.49	.50	.51	.53	.54	.56	.59	.61	.63	.65	.67		.71	.73	.75	.77	.79	.81		.82	.84	.85	.86	.88	.89								
	677	686	702	721	742	766	791	824	853	882	911	940		986	013	038	062	084	105		128	144	159	173	184	195								
30	.46	.47	.48	.49	.51	.53	.55	.57	.59	.61	.64	.66		.69	.71	.73	.75	.77	.79		.81	.82	.83	.85	.86	.87								
	653	664	680	699	720	744	770	803	832	861	890	919		963	990	015	039	061	081		103	119	134	148	159	170								
45	.44	.45	.46	.48	.49	.51	.53	.55	.57	.60	.62	.64		.67	.69	.71	.73	.75	.77		.79	.80	.81	.82	.84	.85								
	626	636	653	672	694	719	745	778	806	835	864	893		937	963	988	011	033	052		074	090	105	118	130	140								

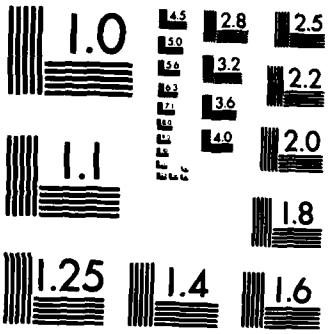
JAN-APR 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

AD-A127 853 FINAL TACTICAL DECISION AID (FTDA) FOR INFRARED (8-12 MICROMETERS) SYSTEM.. (U) SYSTEMS AND APPLIED SCIENCES CORP RIVERDALE MD D B HODGES ET AL. 15 SEP 82 2/5

UNCLASSIFIED SCIENTIFIC-3 AFGL-TR-82-0294 F/G 3/2 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.42	.43	.44	.45	.47	.49	.51	.53	.55	.57	.60	.62	.65	.67	.69	.71	.73	.74	.76	.78	.79	.80	.81	.82
	594	605	622	642	664	689	715	748	776	805	834	862	906	931	956	979	*000	*020	*041	*057	*072	*085	*096	*107
15	.39	.40	.42	.43	.45	.46	.48	.51	.53	.55	.57	.59	.63	.65	.66	.68	.70	.72	.73	.75	.76	.77	.78	.79
	559	570	587	607	630	654	681	714	742	771	799	827	870	896	920	942	963	983	*004	*020	*034	*047	*059	*070
30	.37	.38	.39	.40	.42	.44	.46	.48	.50	.52	.54	.56	.60	.62	.64	.65	.67	.69	.70	.72	.73	.74	.75	.76
	519	531	549	569	592	616	643	676	704	732	761	788	831	856	880	902	922	942	962	978	*33	*006	*018	*029
45	.34	.35	.36	.37	.39	.41	.43	.45	.47	.49	.51	.53	.57	.59	.60	.62	.64	.65	.67	.68	.70	.71	.72	.73
	476	488	506	527	550	575	601	634	662	690	718	745	787	812	836	857	878	897	917	933	948	961	973	984
1500	.30	.31	.33	.34	.36	.38	.39	.42	.44	.46	.48	.50	.53	.55	.57	.59	.60	.62	.64	.65	.66	.67	.68	.69
	430	442	460	481	504	529	555	588	616	644	672	699	740	765	788	809	830	848	869	885	899	912	925	936
15	.27	.28	.29	.31	.32	.34	.36	.38	.40	.42	.44	.46	.50	.51	.53	.55	.57	.58	.60	.61	.62	.63	.65	.66
	380	393	411	432	455	480	506	539	567	594	622	649	690	714	736	758	778	796	817	833	847	861	873	885
30	.23	.24	.25	.27	.29	.30	.32	.35	.37	.39	.41	.43	.46	.48	.49	.51	.53	.54	.56	.57	.58	.59	.61	.62
	328	340	359	380	403	428	454	486	514	541	568	595	635	659	682	703	723	741	762	778	792	806	819	831
45	.19	.20	.22	.23	.25	.26	.28	.31	.33	.35	.37	.39	.42	.43	.45	.47	.48	.50	.51	.53	.54	.55	.56	.57
	272	285	304	325	348	373	399	431	458	485	512	538	578	602	624	645	665	683	704	720	735	749	762	774
1600	.15	.16	.17	.19	.21	.22	.24	.27	.28	.30	.32	.34	.37	.39	.41	.42	.44	.45	.47	.48	.50	.51	.52	.53
	214	227	246	267	290	315	341	372	399	426	453	479	518	541	563	584	604	622	643	659	674	689	702	715
15	.11	.12	.13	.15	.16	.18	.20	.22	.24	.26	.28	.30	.33	.35	.36	.38	.39	.41	.42	.44	.45	.46	.47	.48
	154	167	186	207	230	254	280	312	338	365	391	416	455	479	500	521	541	559	580	596	612	626	640	654
30	.07	.07	.09	.10	.12	.14	.15	.18	.20	.21	.23	.25	.28	.30	.31	.33	.35	.36	.38	.39	.40	.41	.43	.44
	091	105	124	145	167	192	217	248	275	301	327	352	390	413	435	456	475	494	515	531	547	562	576	590
45	.02	.03	.04	.06	.07	.09	.11	.13	.15	.17	.19	.20	.23	.25	.27	.28	.30	.31	.33	.34	.35	.37	.38	.39
	027	041	059	080	103	127	152	183	209	235	260	285	323	346	368	388	408	426	447	464	480	496	511	525

JAN-APR 36 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																											
	JAN							FEB						MAR							APR							
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30				
1700	.00	.00	.00	.01	.03	.04	.06	.08	.10	.12	.14	.16	.18	.20	.22	.23	.25	.26	.28	.29	.30	.32	.33	.34				
	000	000	000	014	037	061	085	116	141	167	192	217	255	277	298	319	339	357	379	396	412	428	444	459				
15	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.13	.15	.17	.18	.20	.21	.23	.24	.25	.27	.28	.29				
	000	000	000	000	000	000	017	047	072	098	122	147	184	206	228	248	268	287	309	325	343	360	376	391				
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.08	.10	.11	.13	.14	.16	.17	.19	.20	.21	.23	.24				
	000	000	000	000	000	000	000	000	002	027	052	076	113	135	156	177	197	216	238	256	273	290	307	323				
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.06	.08	.09	.11	.12	.14	.15	.16	.18	.19				
	000	000	000	000	000	000	000	000	000	000	000	004	040	062	084	104	124	144	166	185	202	220	237	254				
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.05	.07	.08	.10	.11	.12	.14				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	031	052	071	094	113	131	150	167	185				
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04	.06	.07	.09				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	022	041	060	079	098	116				
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	009	028	047				
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000				

JAN-APR 36 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.01	.02	.03	.04	.04	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	003	018	031	041	048	052	052	050	045	038	029	018	005	000	000	000	000	000	000	000	000	000
15	.02	.04	.05	.06	.07	.08	.08	.09	.09	.09	.08	.08	.07	.06	.05	.04	.03	.02	.00	.00	.00	.00	.00	.00
	029	050	068	084	096	105	112	115	115	112	108	101	092	081	069	055	040	024	004	000	000	000	000	000
30	.07	.09	.10	.11	.12	.13	.13	.14	.14	.13	.13	.12	.12	.11	.10	.09	.08	.07	.05	.04	.03	.02	.00	.00
	097	117	135	149	161	170	176	179	178	176	171	164	155	145	133	119	105	090	070	054	037	020	002	000
45	.12	.14	.15	.16	.17	.18	.18	.18	.18	.18	.18	.17	.17	.16	.15	.14	.13	.12	.10	.09	.08	.07	.05	.04
	165	185	202	216	227	235	241	243	243	240	235	228	219	209	197	184	170	156	137	121	105	088	072	055
0600	.17	.19	.20	.21	.22	.23	.23	.23	.23	.23	.23	.22	.21	.21	.20	.19	.18	.17	.15	.14	.13	.12	.11	.09
	234	253	269	282	293	300	306	308	307	304	299	292	284	274	262	250	236	222	204	188	173	157	141	125
15	.23	.24	.25	.26	.27	.28	.28	.28	.28	.28	.28	.27	.26	.26	.25	.24	.23	.22	.20	.19	.18	.17	.16	.15
	302	321	336	349	359	366	371	372	372	369	364	357	348	339	328	315	302	289	272	257	242	227	211	195
30	.28	.29	.30	.31	.32	.32	.33	.33	.33	.33	.32	.32	.31	.30	.30	.29	.28	.27	.26	.24	.23	.22	.21	.20
	370	388	403	415	424	431	436	437	436	433	428	421	413	403	393	381	368	355	339	325	310	295	280	265
45	.33	.34	.35	.36	.37	.37	.38	.38	.38	.37	.37	.37	.36	.35	.35	.34	.33	.32	.31	.29	.28	.27	.26	.25
	438	455	469	481	489	496	500	501	500	496	491	485	477	467	457	446	434	421	405	392	378	364	349	334
0700	.38	.39	.40	.41	.42	.42	.42	.43	.42	.42	.42	.41	.41	.40	.39	.39	.38	.37	.35	.34	.33	.32	.31	.30
	504	521	534	545	553	559	563	564	562	559	554	548	540	531	521	510	499	487	471	458	445	431	417	403
15	.42	.44	.45	.46	.46	.47	.47	.47	.47	.47	.47	.46	.46	.45	.44	.43	.42	.42	.40	.39	.38	.37	.36	.35
	569	585	598	609	616	622	625	626	624	621	616	610	602	593	584	573	562	551	536	524	511	498	484	470
30	.47	.48	.49	.50	.51	.51	.52	.52	.52	.51	.51	.51	.50	.49	.49	.48	.47	.46	.45	.44	.43	.42	.41	.40
	633	648	661	671	678	683	686	686	684	681	676	670	663	655	645	635	625	614	600	588	576	563	550	536
45	.52	.53	.54	.55	.55	.56	.56	.56	.56	.56	.56	.55	.55	.54	.53	.53	.52	.51	.50	.49	.48	.47	.46	.45
	695	710	721	731	738	742	745	745	743	740	735	729	722	714	705	696	686	675	662	650	638	626	613	600

MAY-AUG 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800		.56	.57	.58	.59	.60	.60	.60	.60	.60	.60	.60	.59	.59	.58	.58	.57	.56	.55	.54	.53	.52	.51	.50	.49
		755	769	780	789	795	800	802	802	800	797	792	787	780	772	764	755	745	735	722	711	700	688	675	662
15		.60	.62	.63	.63	.64	.64	.65	.65	.65	.64	.64	.64	.63	.63	.62	.61	.60	.60	.59	.58	.57	.56	.55	.54
		813	826	837	845	851	855	857	857	855	852	847	842	835	828	820	811	802	792	780	770	758	747	735	722
30		.65	.66	.67	.67	.68	.68	.68	.69	.68	.68	.68	.68	.67	.67	.66	.65	.65	.64	.63	.62	.61	.60	.59	.58
		868	880	891	898	904	908	910	909	907	904	900	895	885	881	874	866	857	848	836	823	815	804	792	779
45		.68	.69	.70	.71	.72	.72	.72	.72	.72	.72	.72	.71	.71	.70	.70	.69	.69	.68	.67	.66	.65	.64	.63	.62
		920	932	942	949	955	958	960	959	957	954	950	945	939	933	925	917	909	900	889	879	869	858	846	833
0900		.72	.73	.74	.75	.75	.76	.76	.76	.76	.76	.75	.75	.75	.74	.74	.73	.72	.72	.71	.70	.69	.68	.67	.6
		969	981	990	997	*002	*005	*007	*006	*004	*002	998	993	987	981	974	967	959	950	939	930	920	909	897	885
15		.75	.76	.77	.78	.78	.79	.79	.79	.79	.79	.79	.78	.78	.78	.77	.76	.76	.75	.74	.73	.72	.72	.71	.69
		*015	*026	*035	*042	*047	*049	*051	*050	*049	*046	*042	*037	*032	*026	*020	*013	*005	997	987	977	967	957	945	933
30		.79	.80	.80	.81	.82	.82	.82	.82	.82	.82	.82	.82	.81	.81	.80	.80	.79	.78	.77	.77	.76	.75	.74	.73
		*058	*068	*077	*083	*088	*090	*092	*091	*090	*087	*083	*079	*074	*068	*062	*056	*048	*041	*031	*022	*012	*002	990	978
45		.82	.83	.83	.84	.84	.85	.85	.85	.85	.85	.85	.84	.84	.84	.83	.83	.82	.81	.81	.80	.79	.78	.77	.76
		*097	*107	*115	*121	*125	*128	*129	*129	*127	*125	*121	*117	*113	*107	*102	*095	*088	*081	*071	*063	*053	*043	*031	*019
1000		.84	.85	.86	.86	.87	.87	.88	.88	.88	.87	.87	.87	.87	.86	.86	.85	.85	.84	.83	.83	.82	.81	.80	.79
		*132	*142	*150	*155	*159	*162	*163	*163	*161	*159	*156	*152	*148	*143	*137	*131	*125	*118	*108	*100	*090	*080	*069	*056
15		.87	.87	.88	.89	.89	.90	.90	.90	.90	.90	.90	.89	.89	.89	.88	.88	.87	.87	.86	.85	.84	.83	.82	.81
		*164	*173	*180	*186	*190	*192	*193	*193	*192	*190	*187	*183	*179	*175	*170	*164	*158	*151	*142	*133	*124	*114	*102	*089
30		.89	.89	.90	.91	.91	.92	.92	.92	.92	.92	.92	.91	.91	.91	.90	.90	.89	.89	.88	.87	.86	.85	.84	.83
		*191	*200	*207	*212	*216	*218	*220	*220	*218	*217	*214	*211	*207	*203	*198	*193	*187	*180	*171	*163	*153	*143	*131	*119
45		.90	.91	.92	.92	.93	.93	.93	.94	.94	.94	.93	.93	.93	.93	.92	.92	.91	.91	.90	.89	.88	.87	.86	.85
		*214	*223	*230	*235	*238	*241	*242	*242	*241	*240	*237	*234	*231	*227	*223	*217	*212	*205	*196	*188	*179	*168	*157	*144

MAY-AUG 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.92	.93	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.93	.93	.92	.92	.91	.90	.89	.88	.87
	*233	*241	*248	*253	*257	*259	*261	*261	*260	*259	*257	*254	*251	*247	*243	*238	*233	*226	*218	*209	*200	*189	*177	*164
15	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89	.88
	*248	*256	*262	*267	*271	*273	*275	*275	*275	*274	*272	*270	*267	*263	*259	*255	*249	*243	*235	*225	*217	*206	*194	*180
30	.93	.94	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.97	.96	.96	.96	.95	.95	.94	.93	.92	.91	.90	.89
	*258	*266	*272	*277	*281	*283	*285	*285	*285	*284	*283	*281	*279	*275	*272	*267	*262	*256	*247	*237	*228	*218	*206	*192
45	.94	.95	.95	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.94	.94	.93	.92	.91	.89
	*263	*271	*277	*282	*286	*289	*291	*292	*292	*291	*290	*288	*286	*283	*280	*275	*270	*264	*256	*247	*238	*226	*213	*199
1200	.94	.95	.95	.96	.97	.97	.97	.97	.98	.98	.98	.98	.97	.97	.97	.97	.96	.96	.95	.94	.93	.92	.91	.89
	*265	*272	*278	*283	*287	*290	*292	*293	*294	*294	*293	*291	*289	*287	*284	*279	*274	*268	*260	*251	*241	*230	*216	*202
15	.94	.95	.95	.96	.96	.97	.97	.97	.97	.98	.98	.97	.97	.97	.97	.97	.96	.95	.95	.94	.93	.92	.91	.89
	*261	*269	*275	*280	*284	*287	*290	*291	*292	*292	*291	*290	*289	*286	*283	*279	*274	*268	*259	*251	*240	*228	*215	*199
30	.93	.94	.95	.95	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.94	.93	.93	.91	.90	.89
	*253	*261	*267	*273	*277	*280	*283	*285	*286	*286	*286	*285	*283	*281	*278	*274	*270	*264	*255	*245	*235	*223	*209	*193
45	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.92	.91	.89	.88
	*241	*249	*255	*261	*265	*269	*272	*274	*275	*276	*276	*275	*274	*272	*269	*266	*261	*255	*245	*235	*225	*213	*198	*182
1300	.91	.92	.93	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.93	.93	.92	.91	.90	.88	.87
	*225	*232	*239	*245	*249	*253	*257	*259	*260	*261	*262	*262	*261	*259	*256	*252	*247	*241	*232	*222	*211	*198	*183	*166
15	.89	.90	.91	.92	.92	.93	.93	.93	.94	.94	.94	.94	.94	.94	.94	.93	.93	.92	.91	.90	.89	.88	.87	.85
	*204	*212	*218	*224	*229	*233	*237	*240	*242	*243	*244	*244	*243	*241	*239	*235	*230	*224	*214	*204	*192	*179	*163	*146
30	.88	.88	.89	.90	.90	.91	.91	.92	.92	.92	.92	.92	.92	.92	.92	.92	.91	.91	.90	.89	.88	.86	.85	.83
	*179	*187	*194	*200	*205	*209	*214	*217	*219	*221	*222	*222	*221	*220	*217	*214	*209	*202	*192	*182	*170	*155	*139	*121
45	.85	.86	.87	.88	.88	.89	.89	.90	.90	.90	.90	.90	.90	.90	.90	.90	.89	.89	.88	.87	.86	.84	.83	.81
	*150	*158	*165	*171	*177	*182	*187	*190	*193	*195	*196	*196	*196	*195	*192	*188	*183	*176	*166	*155	*143	*128	*111	*092

MAY-AUG 36 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.83	.84	.85	.85	.86	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86	.85	.84	.83	.82	.80	.79
	*116	*125	*132	*139	*145	*150	*155	*159	*162	*165	*166	*167	*167	*165	*163	*159	*154	*147	*136	*125	*112	*096	*079	*059
15	.80	.81	.82	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.85	.85	.85	.84	.84	.83	.82	.81	.79	.78	.76
	*079	*088	*096	*103	*109	*115	*121	*125	*128	*131	*133	*134	*133	*132	*130	*126	*120	*113	*102	*090	*077	*061	*043	*022
30	.77	.78	.79	.80	.80	.81	.81	.82	.82	.83	.83	.83	.83	.83	.83	.82	.82	.81	.80	.79	.78	.76	.75	.73
	*039	*048	*056	*063	*070	*076	*082	*087	*091	*094	*096	*097	*097	*096	*093	*089	*083	*076	*064	*052	*038	*021	*003	982
45	.74	.75	.76	.76	.77	.78	.78	.79	.79	.80	.80	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.73	.72	.70
	994	*004	*012	*020	*027	*034	*041	*046	*050	*053	*055	*057	*057	*056	*053	*049	*043	*035	*023	*010	995	978	959	937
1500	.70	.71	.72	.73	.74	.74	.75	.75	.76	.76	.76	.77	.77	.76	.76	.76	.75	.75	.74	.72	.71	.70	.68	.66
	947	956	965	974	981	988	996	*001	*006	*009	*012	*013	*014	*012	*010	*005	999	991	978	965	950	932	912	889
15	.67	.68	.68	.69	.70	.71	.71	.72	.72	.73	.73	.73	.73	.73	.73	.72	.72	.71	.70	.69	.67	.66	.64	.62
	896	906	916	924	933	940	948	954	959	963	965	967	967	966	963	959	952	943	930	917	901	882	861	838
30	.63	.64	.64	.65	.66	.67	.68	.68	.69	.69	.69	.69	.69	.69	.69	.69	.68	.67	.66	.65	.64	.62	.60	.58
	842	853	863	872	881	889	897	904	909	913	916	918	918	917	914	909	902	893	879	865	849	829	808	784
45	.58	.59	.60	.61	.62	.63	.64	.64	.65	.65	.65	.65	.65	.65	.65	.65	.64	.63	.62	.61	.59	.58	.56	.54
	786	797	808	818	827	835	844	851	856	861	864	866	866	865	862	857	850	840	826	811	794	774	752	727
1600	.54	.55	.56	.57	.58	.59	.59	.60	.60	.61	.61	.61	.61	.61	.61	.61	.60	.59	.58	.57	.55	.54	.52	.50
	727	739	750	760	770	779	789	796	802	806	810	812	812	811	807	802	795	785	769	754	736	716	693	668
15	.50	.51	.52	.53	.53	.54	.55	.56	.56	.57	.57	.57	.57	.57	.57	.56	.56	.55	.53	.52	.51	.49	.47	.45
	666	679	690	701	711	721	731	739	745	750	753	755	756	754	751	745	737	727	711	695	676	655	632	606
30	.45	.46	.47	.48	.49	.50	.51	.51	.52	.52	.53	.53	.53	.53	.52	.52	.51	.50	.49	.48	.46	.44	.42	.40
	604	616	629	640	651	661	672	679	686	691	695	697	697	696	692	686	678	667	650	634	615	593	569	542
45	.40	.41	.42	.43	.44	.45	.46	.47	.47	.48	.48	.48	.48	.48	.48	.47	.47	.46	.44	.43	.41	.40	.38	.35
	539	553	565	577	589	599	611	619	626	631	635	637	637	636	632	625	617	605	588	571	551	529	504	476

MAY-AUG 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.35	.36	.37	.38	.39	.40	.41	.42	.43	.43	.43	.44	.44	.43	.43	.43	.42	.41	.39	.38	.36	.35	.33	.30
	473	487	501	513	525	536	548	557	564	570	574	576	576	574	570	563	554	542	524	506	486	463	437	409
15	.30	.31	.33	.34	.35	.36	.37	.37	.38	.38	.39	.39	.39	.39	.38	.38	.37	.36	.35	.33	.31	.30	.28	.25
	406	421	435	448	461	472	485	494	501	507	511	513	513	511	507	500	490	478	459	441	420	396	369	341
30	.25	.26	.28	.29	.30	.31	.32	.32	.33	.34	.34	.34	.34	.34	.33	.33	.32	.31	.30	.28	.26	.25	.22	.20
	339	354	369	382	395	408	420	430	438	444	448	450	450	448	443	435	425	412	393	374	352	328	301	272
45	.20	.21	.23	.24	.25	.26	.27	.28	.28	.29	.29	.29	.29	.29	.29	.28	.27	.26	.25	.23	.21	.19	.17	.15
	270	286	302	316	330	342	356	365	373	380	384	386	386	383	378	370	360	346	326	307	284	259	232	202
1800	.15	.16	.18	.19	.20	.21	.22	.23	.23	.24	.24	.24	.24	.24	.24	.23	.22	.21	.20	.18	.16	.14	.12	.10
	202	218	234	249	264	277	291	301	309	315	320	322	321	318	313	305	294	280	259	239	216	190	162	132
15	.10	.11	.13	.14	.15	.16	.17	.18	.18	.19	.19	.19	.19	.19	.19	.18	.17	.16	.14	.13	.11	.09	.07	.05
	133	151	167	183	198	211	226	236	244	251	255	257	257	254	248	239	228	213	192	171	147	121	092	061
30	.05	.06	.08	.09	.10	.11	.12	.13	.14	.14	.14	.15	.15	.14	.14	.13	.12	.11	.09	.08	.06	.04	.02	.00
	065	083	100	117	132	146	161	172	180	187	191	193	192	189	183	174	162	147	125	103	079	052	023	000
45	.00	.01	.03	.04	.05	.06	.07	.08	.09	.09	.10	.10	.10	.09	.09	.08	.07	.06	.04	.03	.01	.00	.00	.00
	000	017	034	051	067	082	097	108	117	123	127	129	128	125	118	109	096	081	058	036	011	000	000	000
1900	.00	.00	.00	.00	.00	.01	.03	.03	.04	.05	.05	.05	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00
	000	000	000	000	003	018	034	045	054	060	065	066	065	061	054	044	031	015	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	003	004	003	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 36 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	034	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.08	.07	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	105	088	071	053	035	016	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.13	.12	.11	.09	.08	.07	.05	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	176	159	143	125	107	088	069	048	027	005	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.15	.13	.12	.10	.09	.07	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	246	230	214	196	179	160	140	120	098	076	053	029	000	000	000	000	000	000	000	000	000	000	000	000
45	.23	.22	.21	.20	.18	.17	.15	.14	.12	.11	.09	.07	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	316	300	284	267	249	231	211	190	169	146	123	099	070	045	021	000	000	000	000	000	000	000	000	000
0700	.29	.27	.26	.25	.23	.22	.21	.19	.17	.16	.14	.12	.10	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00
	385	370	354	337	319	300	280	260	238	215	192	167	138	113	088	064	041	019	000	000	000	000	000	000
15	.34	.32	.31	.30	.28	.27	.25	.24	.22	.20	.19	.17	.15	.13	.11	.09	.08	.06	.05	.03	.02	.01	.01	.00
	453	438	422	405	387	368	349	328	306	283	259	234	204	179	154	130	106	084	064	046	030	017	007	000
30	.39	.37	.36	.35	.33	.32	.30	.29	.27	.25	.23	.22	.19	.17	.16	.14	.12	.11	.09	.08	.07	.06	.05	.05
	519	504	488	471	454	435	415	394	371	348	324	299	269	243	218	194	170	148	128	109	094	081	071	064
45	.43	.42	.41	.39	.38	.37	.35	.33	.32	.30	.28	.26	.24	.22	.20	.18	.17	.15	.13	.12	.11	.10	.09	.09
	583	568	553	536	518	499	479	458	435	412	387	362	331	306	280	256	232	210	189	171	156	143	134	127

SEP-DEC 36 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	SEP 5	SEP 10	SEP 15	SEP 20	SEP 25	SEP 30	OCT 5	OCT 10	OCT 15	OCT 20	OCT 25	OCT 30	NOV 5	NOV 10	NOV 15	NOV 20	NOV 25	NOV 30	DEC 5	DEC 10	DEC 15	DEC 20	DEC 25	DEC 30
DATE																								
0800	.48	.47	.45	.44	.43	.41	.40	.38	.36	.34	.32	.30	.28	.26	.24	.23	.21	.19	.18	.16	.15	.14	.14	.13
	646	631	615	598	581	561	541	519	497	473	448	423	392	366	340	315	291	269	249	231	216	204	194	189
15	.52	.51	.50	.48	.47	.45	.44	.42	.40	.38	.37	.35	.32	.30	.28	.27	.25	.23	.22	.20	.19	.19	.18	.18
	705	691	675	658	640	621	600	579	556	531	506	481	449	423	397	372	349	326	306	289	274	262	253	247
30	.57	.55	.54	.53	.51	.50	.48	.46	.44	.42	.41	.39	.36	.34	.32	.30	.29	.27	.26	.24	.23	.22	.22	.22
	763	748	732	716	697	678	657	635	611	587	562	536	504	478	452	427	403	381	361	343	329	317	309	304
45	.61	.59	.58	.57	.55	.54	.52	.50	.48	.46	.44	.42	.40	.38	.36	.34	.32	.31	.29	.28	.27	.26	.26	.25
	817	803	787	770	751	732	710	688	664	639	614	588	556	529	503	478	454	432	413	395	381	370	362	358
0900	.64	.63	.62	.60	.59	.57	.56	.54	.52	.50	.48	.46	.43	.41	.39	.38	.36	.34	.33	.32	.30	.30	.29	.29
	869	854	838	821	802	782	761	738	714	689	663	636	604	577	551	526	503	481	461	441	430	419	412	408
15	.68	.67	.65	.64	.62	.61	.59	.57	.55	.53	.51	.49	.47	.45	.43	.41	.39	.37	.36	.35	.34	.33	.32	.32
	917	902	886	868	849	829	807	784	760	734	708	681	649	622	596	571	547	526	506	490	476	466	459	456
30	.71	.70	.69	.67	.66	.64	.62	.60	.58	.56	.54	.52	.50	.47	.46	.44	.42	.40	.39	.38	.37	.36	.36	.35
	961	946	930	912	893	872	850	827	802	776	750	723	690	663	637	612	589	567	548	532	519	509	503	500
45	.74	.73	.72	.70	.68	.67	.65	.63	.61	.59	.57	.55	.52	.50	.48	.46	.45	.43	.42	.40	.40	.39	.38	.38
	*002	987	971	952	933	912	889	865	840	814	787	760	727	700	674	649	626	605	586	570	558	548	543	541
1000	.77	.76	.74	.73	.71	.69	.67	.65	.63	.61	.59	.57	.55	.53	.51	.49	.47	.45	.44	.43	.42	.41	.41	.41
	*039	*024	*007	989	969	947	924	900	874	848	821	793	760	733	707	683	660	639	620	605	593	584	579	578
15	.80	.78	.77	.75	.73	.72	.70	.68	.66	.64	.61	.59	.57	.55	.53	.51	.49	.48	.46	.45	.44	.44	.43	.43
	*072	*057	*039	*021	*000	976	955	930	904	878	850	823	789	762	736	712	689	668	651	636	624	616	611	611
30	.82	.80	.79	.77	.75	.74	.72	.70	.67	.65	.63	.61	.58	.56	.54	.53	.51	.49	.48	.47	.46	.46	.45	.45
	*101	*085	*068	*048	*027	*005	981	956	930	903	875	847	814	787	761	737	714	694	677	662	651	644	640	640
45	.84	.82	.81	.79	.77	.75	.73	.71	.69	.67	.65	.62	.60	.58	.56	.54	.52	.51	.50	.49	.48	.47	.47	.47
	*126	*109	*091	*072	*050	*027	*003	978	951	924	896	868	834	808	782	757	735	715	698	685	674	667	664	665

SEP-DEC 36 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1'		.85	.84	.82	.80	.78	.77	.74	.72	.70	.68	.66	.64	.61	.59	.57	.55	.54	.52	.51	.50	.49	.49	.48	.48
		*146	*129	*111	*090	*069	*045	*021	995	968	940	912	884	850	823	798	774	752	732	716	703	693	687	684	686
15		.86	.85	.83	.81	.79	.77	.75	.73	.71	.69	.67	.64	.62	.60	.58	.56	.54	.53	.52	.51	.50	.50	.49	.50
		*162	*144	*125	*105	*082	*058	*033	*007	979	951	923	895	861	835	809	785	764	745	729	716	707	701	700	702
		.87	.85	.84	.82	.80	.78	.76	.74	.72	.69	.67	.65	.62	.60	.58	.57	.55	.54	.52	.51	.51	.50	.50	.50
		.73	*155	*136	*114	*091	*067	*041	*014	987	958	930	901	868	841	816	793	772	753	738	725	717	712	711	714
45		.88	.86	.84	.82	.80	.78	.76	.74	.72	.70	.67	.65	.62	.60	.58	.57	.55	.54	.53	.52	.51	.51	.51	.51
		*179	*161	*141	*119	*096	*071	*045	*017	989	961	932	903	870	843	818	795	775	757	742	730	722	718	718	721
1200		.88	.86	.84	.82	.80	.78	.76	.74	.72	.69	.67	.65	.62	.60	.58	.57	.55	.54	.53	.52	.51	.51	.51	.51
		*181	*162	*142	*119	*095	*070	*043	*015	987	958	929	901	867	841	816	793	773	756	741	730	723	720	720	724
15		.87	.86	.84	.82	.80	.78	.76	.73	.71	.69	.67	.64	.62	.60	.58	.56	.55	.53	.52	.51	.51	.51	.51	.51
		*179	*159	*138	*115	*090	*064	*037	*009	980	951	922	893	860	834	809	787	767	750	736	725	720	717	718	723
30		.87	.85	.83	.81	.79	.77	.75	.73	.70	.68	.66	.63	.61	.59	.57	.55	.54	.53	.52	.51	.50	.50	.50	.51
		*171	*151	*129	*106	*080	*054	*026	998	968	939	910	881	848	822	798	776	757	740	727	717	711	709	711	717
45		.86	.84	.82	.80	.78	.76	.74	.71	.69	.67	.64	.62	.60	.58	.56	.54	.53	.52	.51	.50	.49	.49	.50	.50
		*159	*139	*116	*092	*066	*039	*011	982	952	922	893	864	831	806	782	760	741	726	713	704	699	697	700	706
1300		.85	.83	.81	.79	.77	.75	.72	.70	.68	.65	.63	.61	.58	.56	.54	.53	.51	.50	.49	.49	.48	.48	.48	.49
		*143	*121	*098	*073	*047	*019	991	961	931	901	872	843	810	785	761	740	722	707	695	687	682	681	684	691
15		.83	.81	.79	.77	.75	.73	.70	.68	.66	.63	.61	.59	.56	.54	.53	.51	.50	.49	.48	.47	.47	.47	.47	.48
		*122	*100	*076	*050	*023	995	966	936	906	876	846	818	785	760	737	716	698	683	672	665	661	661	664	672
30		.81	.79	.77	.75	.73	.71	.68	.66	.64	.61	.59	.57	.54	.52	.51	.49	.48	.47	.46	.45	.45	.45	.45	.46
		*096	*074	*049	*023	995	967	937	907	876	846	816	788	755	730	707	687	670	656	645	638	635	636	640	648
45		.79	.77	.75	.73	.71	.68	.66	.64	.61	.59	.56	.54	.52	.50	.48	.47	.45	.44	.44	.43	.43	.43	.43	.44
		*067	*044	*018	991	963	934	904	873	842	812	782	754	721	697	674	655	638	624	614	608	606	607	612	621

SEP-DEC 36 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.77	.75	.73	.70	.68	.66	.63	.61	.58	.56	.54	.52	.49	.47	.46	.44	.43	.42	.41	.41	.41	.41	.41	.42
	*033	*009	983	956	927	897	866	835	804	774	744	715	683	659	637	618	602	589	580	571	572	574	579	589
15	.74	.72	.70	.67	.65	.63	.60	.58	.55	.53	.51	.48	.46	.44	.43	.41	.40	.39	.38	.38	.38	.38	.38	.39
	995	971	944	916	886	856	825	793	762	732	702	673	642	618	596	577	562	550	541	535	534	537	543	553
30	.71	.69	.67	.64	.62	.59	.57	.54	.52	.50	.47	.45	.43	.41	.39	.38	.37	.36	.35	.35	.35	.35	.36	.36
	954	928	901	872	842	811	780	748	716	686	656	628	596	573	551	533	518	507	498	491	493	496	503	513
45	.67	.65	.63	.61	.58	.56	.53	.51	.48	.46	.44	.42	.39	.38	.36	.35	.34	.33	.32	.32	.32	.32	.33	.33
	909	882	854	825	794	763	731	699	667	636	607	578	547	524	503	486	471	460	453	449	449	452	460	470
1500	.64	.62	.59	.57	.55	.52	.50	.47	.45	.42	.40	.38	.36	.34	.32	.31	.30	.29	.29	.29	.28	.29	.29	.30
	860	833	804	774	743	711	679	646	614	584	554	526	495	472	452	435	421	410	403	400	401	405	413	424
15	.60	.58	.55	.53	.51	.48	.46	.43	.41	.38	.36	.34	.32	.30	.28	.27	.26	.25	.25	.25	.25	.25	.26	.26
	808	780	751	720	688	656	623	591	559	528	498	470	440	417	397	381	367	358	351	349	350	354	362	374
30	.56	.54	.51	.49	.46	.44	.41	.39	.36	.34	.32	.30	.27	.26	.24	.23	.22	.21	.21	.21	.21	.21	.22	.23
	753	725	695	663	631	598	565	532	500	469	439	412	382	360	340	324	311	302	296	294	296	301	309	321
45	.52	.49	.47	.44	.42	.39	.37	.34	.32	.30	.27	.25	.23	.21	.20	.19	.18	.17	.17	.17	.17	.17	.18	.19
	695	666	635	604	571	537	504	471	439	408	378	351	321	299	280	265	252	244	238	237	239	244	253	266
1600	.47	.45	.42	.40	.37	.35	.32	.30	.27	.25	.23	.21	.19	.17	.16	.15	.14	.13	.13	.13	.13	.13	.14	.15
	635	605	574	541	508	474	441	407	375	344	315	288	258	237	218	203	191	183	178	177	180	186	195	208
15	.42	.40	.38	.35	.33	.30	.27	.25	.22	.20	.18	.16	.14	.12	.11	.10	.09	.09	.08	.08	.08	.09	.10	.10
	572	542	510	477	443	409	375	342	309	278	249	222	193	172	154	139	128	120	116	116	118	125	134	147
30	.38	.35	.33	.30	.28	.25	.22	.20	.18	.15	.13	.11	.09	.08	.06	.05	.05	.04	.04	.04	.04	.04	.05	.06
	507	476	444	411	376	342	308	274	242	211	182	155	126	106	088	074	063	056	052	052	055	062	072	085
45	.33	.30	.28	.25	.23	.20	.17	.15	.13	.10	.08	.06	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.01	.01
	441	409	376	342	308	273	239	205	173	142	113	086	058	038	021	007	000	000	000	000	000	000	007	020

SEP-DEC 36 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.25	.23	.20	.18	.15	.12	.10	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	373	341	307	273	238	203	168	135	102	072	043	017	000	000	000	000	000	000	000	000	000	000	000	000
15	.23	.20	.18	.15	.12	.10	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	304	271	237	202	167	132	097	063	031	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	234	201	166	131	096	060	025	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	163	130	095	059	024	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	093	058	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 36 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIFES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	009	036	061
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	051	081	107	132
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.11	.13	.15
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	022	062	094	124	153	179	203
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.12	.15	.17	.19	.20
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	062	096	136	167	197	225	250	273
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.07	.10	.12	.15	.18	.20	.22	.24	.26
	000	000	000	000	000	000	000	000	000	000	000	000	003	035	069	103	137	170	209	240	269	297	321	344
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.08	.10	.13	.15	.18	.21	.23	.25	.27	.29	.31
	000	000	000	000	000	000	000	000	000	000	001	029	078	110	143	177	211	244	282	313	341	368	392	414
0700	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.07	.11	.13	.16	.18	.21	.23	.26	.28	.30	.32	.34	.36
	000	000	000	000	000	000	000	004	025	048	074	102	151	184	217	251	284	317	354	384	412	438	461	482
15	.02	.01	.01	.02	.02	.03	.04	.05	.07	.09	.11	.13	.16	.19	.21	.23	.26	.28	.31	.33	.35	.37	.39	.41
	022	019	019	023	030	041	055	076	097	120	147	175	224	257	290	323	356	388	425	455	482	507	530	550
30	.06	.06	.06	.06	.07	.08	.09	.10	.12	.14	.16	.18	.21	.24	.26	.29	.31	.33	.36	.38	.40	.42	.44	.46
	088	086	087	091	098	110	124	146	167	191	218	246	296	328	361	394	426	458	495	523	550	574	596	616
45	.11	.11	.11	.11	.12	.13	.14	.15	.17	.19	.21	.23	.26	.29	.31	.34	.36	.38	.41	.43	.45	.47	.49	.50
	153	151	152	157	165	177	192	214	236	261	287	316	366	398	431	463	495	527	562	590	616	640	661	680

JAN-APR 34 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.15	.15	.15	.16	.16	.17	.18	.20	.22	.23	.25	.28	.31	.34	.36	.38	.41	.43	.46	.48	.50	.52	.54	.55
	216	214	216	221	230	242	258	281	303	328	355	384	434	466	498	530	562	593	628	656	681	704	724	742
15	.20	.20	.20	.20	.21	.22	.23	.25	.25	.28	.30	.32	.36	.38	.41	.43	.46	.48	.51	.53	.55	.56	.58	.59
	276	275	278	284	293	306	322	345	368	393	421	450	499	531	563	595	627	657	691	718	742	765	785	802
30	.24	.24	.24	.24	.25	.26	.27	.29	.31	.33	.35	.37	.40	.43	.45	.48	.50	.52	.55	.57	.59	.61	.62	.64
	334	334	337	343	353	367	383	408	431	456	484	513	565	594	626	658	689	718	752	778	802	823	842	859
45	.28	.28	.28	.28	.29	.30	.31	.33	.35	.37	.39	.41	.45	.47	.50	.52	.54	.57	.59	.61	.63	.65	.66	.68
	390	390	393	400	411	425	442	467	490	516	544	574	623	654	686	717	748	777	809	835	858	879	897	913
0900	.31	.31	.32	.32	.33	.34	.35	.37	.39	.41	.43	.45	.48	.51	.54	.56	.58	.61	.63	.65	.67	.69	.70	.72
	442	443	447	454	466	480	498	523	547	573	602	631	680	712	743	774	803	832	864	889	911	931	949	964
15	.35	.35	.35	.36	.37	.38	.39	.41	.43	.45	.47	.49	.53	.55	.58	.60	.62	.64	.67	.69	.71	.72	.74	.75
	491	492	497	505	517	532	551	577	601	627	656	685	734	766	796	827	856	884	915	939	961	980	997	*012
30	.38	.38	.38	.39	.40	.41	.43	.45	.46	.48	.50	.53	.56	.59	.61	.64	.66	.68	.70	.72	.74	.76	.77	.78
	537	538	544	553	565	581	600	627	651	678	706	736	785	816	846	876	905	932	963	986	*007	*026	*042	*056
45	.41	.41	.42	.42	.43	.44	.46	.48	.50	.52	.54	.56	.60	.62	.65	.67	.69	.71	.74	.75	.77	.79	.80	.81
	579	581	587	597	610	626	646	673	698	725	753	783	832	862	893	922	950	977	*007	*029	*050	*068	*083	*097
1000	.44	.44	.44	.45	.46	.47	.49	.51	.53	.55	.57	.59	.63	.65	.68	.70	.72	.74	.77	.78	.80	.82	.83	.84
	617	620	626	637	651	668	688	715	741	768	797	826	875	905	935	964	991	*017	*046	*065	*088	*105	*121	*134
15	.46	.46	.47	.48	.49	.50	.52	.54	.55	.58	.60	.62	.66	.68	.70	.73	.75	.77	.79	.81	.83	.84	.85	.86
	651	654	662	673	688	705	726	754	779	807	836	865	914	943	973	*001	*028	*054	*082	*103	*122	*139	*154	*166
30	.48	.48	.49	.50	.51	.52	.54	.56	.58	.60	.62	.64	.68	.70	.73	.75	.77	.79	.81	.83	.85	.86	.87	.89
	681	685	693	705	720	738	760	788	814	842	870	900	948	978	*007	*035	*061	*086	*113	*134	*152	*169	*183	*195
45	.50	.50	.51	.52	.53	.54	.56	.58	.60	.62	.64	.67	.70	.73	.75	.77	.79	.81	.83	.85	.87	.88	.89	.90
	707	711	720	733	749	767	789	818	844	872	901	930	978	*007	*036	*063	*089	*114	*140	*160	*178	*194	*207	*219

JAN-APR 34 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.52	.52	.53	.54	.55	.56	.58	.60	.62	.64	.66	.69	.72	.74	.77	.79	.81	.83	.85	.87	.88	.90	.91	.92
	728	734	743	756	773	792	814	843	870	898	927	956	*004	*033	*061	*088	*113	*137	*163	*182	*198	*214	*227	*238
15	.53	.53	.54	.55	.56	.58	.59	.61	.63	.66	.68	.70	.74	.76	.78	.80	.82	.84	.86	.88	.89	.91	.92	.93
	745	751	761	775	792	812	835	864	891	919	948	978	*024	*052	*081	*107	*132	*155	*180	*199	*216	*230	*243	*254
30	.54	.54	.55	.56	.57	.59	.60	.63	.65	.67	.69	.71	.75	.77	.79	.81	.83	.85	.87	.89	.90	.92	.93	.94
	758	764	775	790	807	828	851	881	908	936	965	994	*041	*069	*096	*122	*146	*169	*193	*212	*228	*242	*254	*264
45	.54	.55	.55	.57	.58	.59	.61	.63	.65	.68	.70	.72	.76	.78	.80	.82	.84	.86	.88	.89	.91	.92	.93	.94
	766	773	784	799	818	839	862	892	920	948	977	*006	*052	*080	*106	*132	*156	*178	*201	*219	*235	*249	*260	*270
1200	.54	.55	.56	.57	.58	.60	.62	.64	.66	.68	.70	.73	.76	.78	.80	.82	.84	.86	.88	.90	.91	.92	.93	.94
	769	777	789	805	823	845	868	899	927	955	984	*013	*059	*086	*112	*137	*160	*182	*205	*222	*237	*251	*262	*272
15	.54	.55	.56	.57	.58	.60	.62	.64	.66	.68	.70	.73	.76	.78	.80	.82	.84	.86	.88	.89	.91	.92	.93	.94
	768	776	789	805	824	846	870	901	929	957	986	*015	*060	*087	*113	*137	*160	*181	*203	*220	*235	*248	*259	*269
30	.54	.54	.55	.57	.58	.60	.62	.64	.66	.68	.70	.72	.76	.78	.80	.82	.84	.86	.88	.89	.90	.91	.93	.93
	762	771	784	801	821	843	867	899	926	954	983	*012	*056	*083	*108	*132	*155	*175	*197	*213	*228	*240	*251	*261
45	.53	.54	.55	.56	.58	.59	.61	.63	.65	.68	.70	.72	.75	.77	.79	.81	.83	.85	.87	.88	.89	.91	.92	.93
	752	761	775	792	812	835	859	891	919	947	975	*004	*048	*074	*099	*123	*144	*164	*186	*202	*216	*228	*239	*248
1300	.52	.53	.54	.55	.57	.58	.60	.62	.65	.67	.69	.71	.74	.76	.78	.80	.82	.84	.86	.87	.88	.89	.90	.91
	737	746	761	779	799	822	847	879	906	935	963	991	*035	*061	*085	*108	*129	*149	*170	*185	*199	*212	*222	*231
15	.51	.51	.52	.54	.55	.57	.59	.61	.63	.65	.68	.70	.73	.75	.77	.79	.81	.82	.84	.85	.87	.88	.89	.90
	717	727	742	761	781	805	830	862	889	918	946	974	*017	*042	*066	*089	*110	*129	*150	*165	*178	*190	*201	*210
30	.49	.50	.51	.52	.54	.55	.57	.60	.62	.64	.66	.68	.71	.73	.75	.77	.79	.80	.82	.84	.85	.86	.87	.88
	693	704	719	738	759	783	808	840	868	896	924	951	994	*019	*043	*065	*085	*104	*124	*139	*153	*165	*175	*184
45	.47	.48	.49	.50	.52	.54	.55	.58	.60	.62	.64	.66	.70	.71	.73	.75	.77	.78	.80	.81	.83	.84	.85	.86
	665	676	692	711	733	756	782	814	842	869	897	925	967	991	*015	*036	*057	*075	*095	*110	*123	*134	*145	*154

JAN-APR 34 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.45	.46	.47	.48	.50	.51	.53	.55	.58	.60	.62	.64	.67	.69	.71	.73	.74	.76	.78	.79	.80	.81	.82	.83
	633	644	660	680	702	726	751	783	811	839	866	893	935	959	982	*003	*023	*041	*061	*075	*088	*100	*110	*120
15	.42	.43	.44	.46	.47	.49	.51	.53	.55	.57	.59	.61	.65	.67	.68	.70	.72	.73	.75	.76	.77	.78	.79	.80
	596	608	625	645	667	691	716	748	776	803	831	858	899	923	945	966	986	*003	*023	*037	*050	*062	*072	*082
30	.39	.40	.41	.43	.44	.46	.48	.50	.52	.55	.57	.59	.62	.64	.65	.67	.69	.70	.72	.73	.74	.75	.76	.77
	556	568	585	605	628	652	677	709	737	764	791	818	858	882	904	925	944	961	980	995	*008	*019	*030	*040
45	.36	.37	.38	.40	.41	.43	.45	.47	.49	.51	.53	.55	.59	.60	.62	.64	.65	.67	.68	.70	.71	.72	.73	.74
	512	524	542	562	585	609	634	666	694	721	748	774	814	837	859	879	898	915	934	948	961	973	984	994
1500	.33	.34	.35	.36	.38	.40	.42	.44	.46	.48	.50	.52	.55	.57	.59	.60	.62	.63	.65	.66	.67	.68	.69	.70
	464	477	495	515	538	562	588	620	647	674	700	726	765	788	810	830	849	866	884	899	912	924	935	945
15	.29	.30	.31	.33	.35	.36	.38	.40	.42	.44	.46	.48	.51	.53	.55	.56	.58	.59	.61	.62	.63	.64	.65	.66
	414	426	444	465	488	512	538	569	596	623	649	674	713	736	757	777	796	813	831	845	859	871	882	892
30	.25	.26	.28	.29	.31	.33	.34	.37	.39	.41	.42	.44	.47	.49	.51	.52	.54	.55	.57	.58	.59	.60	.61	.62
	360	372	391	412	434	459	484	515	542	569	594	620	658	680	701	721	739	756	775	789	802	815	826	837
45	.21	.22	.24	.25	.27	.29	.30	.33	.35	.36	.38	.40	.43	.45	.46	.48	.49	.51	.52	.54	.55	.56	.57	.58
	303	316	334	355	378	402	427	458	485	511	537	561	599	621	642	662	680	697	715	730	743	756	768	779
1600	.17	.18	.19	.21	.23	.24	.26	.28	.30	.32	.34	.36	.39	.40	.42	.43	.45	.46	.48	.49	.50	.51	.52	.53
	243	256	275	296	319	343	368	399	425	450	476	500	536	559	580	599	617	634	653	668	681	694	707	718
15	.13	.14	.15	.17	.18	.20	.22	.24	.26	.28	.29	.31	.34	.36	.37	.39	.40	.42	.43	.44	.45	.47	.48	.49
	182	195	213	234	257	281	306	336	362	387	412	437	473	495	515	535	553	569	588	603	617	630	643	655
30	.08	.09	.11	.12	.14	.15	.17	.19	.21	.23	.25	.27	.29	.31	.32	.34	.35	.37	.38	.39	.41	.42	.43	.44
	118	131	150	170	193	216	241	271	297	322	347	370	407	428	448	467	485	502	521	537	551	565	578	590
45	.04	.05	.06	.07	.09	.11	.12	.15	.16	.18	.20	.22	.24	.26	.27	.29	.30	.32	.33	.34	.36	.37	.38	.39
	052	065	084	104	127	150	175	204	229	254	279	302	338	359	379	398	416	433	453	468	483	497	511	524

JAN-APR 34 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.00	.00	.01	.03	.04	.06	.08	.10	.11	.13	.15	.17	.19	.21	.22	.24	.25	.26	.28	.29	.30	.32	.33	.34
	000	000	016	037	059	082	106	136	160	185	209	232	268	288	308	327	345	363	382	398	413	428	442	456
15	.00	.00	.00	.00	.00	.01	.03	.05	.06	.08	.10	.12	.14	.16	.17	.19	.20	.21	.23	.24	.25	.26	.28	.29
	000	000	000	000	000	013	036	065	090	114	137	160	195	216	236	255	273	291	311	327	342	357	372	386
30	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.06	.09	.10	.12	.13	.15	.16	.17	.19	.20	.21	.22	.23
	000	000	000	000	000	000	000	000	018	041	065	087	122	143	163	182	200	218	238	254	270	286	301	316
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.06	.08	.09	.11	.12	.13	.15	.16	.17	.18
	000	000	000	000	000	000	000	000	000	000	000	014	048	069	088	107	126	144	164	181	198	214	230	246
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.05	.07	.08	.09	.11	.12	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	033	051	069	091	108	125	142	159	175
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.05	.06	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	017	035	052	070	087	104
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	016	034
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 34 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.01	.02	.02	.02	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	011	021	028	031	031	028	024	017	008	000	000	000	000	000	000	000	000	000	000	000
15	.01	.03	.04	.05	.06	.07	.07	.07	.07	.07	.07	.06	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00
	014	034	052	066	078	086	093	095	095	092	088	081	072	061	049	036	022	006	000	000	000	000	000	000
30	.06	.08	.09	.10	.11	.12	.12	.12	.12	.12	.12	.11	.10	.10	.09	.08	.07	.06	.04	.03	.02	.01	.00	.00
	083	103	120	134	145	153	159	161	160	158	153	146	137	127	115	102	088	073	055	034	024	008	000	000
45	.11	.13	.14	.15	.16	.17	.17	.17	.17	.17	.17	.16	.15	.15	.14	.13	.12	.11	.09	.08	.07	.06	.05	.04
	153	172	188	202	212	220	225	227	226	223	218	211	203	192	181	169	155	141	124	109	093	078	062	047
0600	.17	.18	.19	.20	.21	.22	.22	.22	.22	.22	.21	.21	.20	.20	.19	.18	.17	.16	.15	.13	.12	.11	.10	.09
	224	242	257	270	280	287	292	293	292	289	284	277	269	259	248	236	223	209	192	176	163	149	134	119
15	.22	.23	.24	.25	.26	.27	.27	.27	.27	.27	.26	.26	.25	.25	.24	.23	.22	.21	.20	.19	.18	.16	.15	.14
	294	311	326	338	347	354	358	359	358	355	350	343	335	325	315	303	291	278	261	248	234	219	205	191
30	.27	.28	.29	.30	.31	.32	.32	.32	.32	.32	.31	.31	.30	.30	.29	.28	.27	.26	.25	.24	.23	.22	.21	.20
	363	380	394	406	414	421	425	425	424	421	416	409	401	392	381	370	358	346	330	317	304	290	276	262
45	.32	.33	.35	.35	.36	.37	.37	.37	.37	.37	.36	.36	.35	.35	.34	.33	.32	.31	.30	.29	.28	.27	.26	.25
	433	449	462	473	481	487	490	491	489	486	481	474	466	457	447	437	425	413	398	386	373	360	347	333
0700	.37	.38	.40	.40	.41	.41	.42	.42	.42	.42	.41	.41	.40	.39	.39	.38	.37	.36	.35	.31	.33	.32	.31	.30
	501	516	529	539	547	552	555	555	554	550	545	539	531	522	513	502	492	480	466	454	442	429	416	403
15	.42	.43	.44	.45	.46	.46	.47	.47	.47	.46	.46	.46	.45	.44	.44	.43	.42	.41	.40	.39	.38	.37	.36	.35
	567	582	595	604	611	616	619	619	617	613	608	602	595	586	577	567	557	546	533	521	509	497	485	472
30	.47	.48	.49	.50	.51	.51	.51	.51	.51	.51	.51	.50	.50	.49	.48	.48	.47	.46	.45	.41	.43	.42	.41	.40
	633	647	659	668	674	679	681	681	679	675	670	664	657	649	640	631	621	611	598	587	575	564	552	540
45	.52	.53	.54	.55	.55	.56	.56	.56	.56	.56	.55	.55	.54	.54	.53	.52	.52	.51	.50	.49	.48	.47	.46	.45
	696	710	721	729	735	739	741	741	739	736	731	725	718	710	702	693	683	673	661	651	640	629	617	605

MAY-AUG 34 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	MAY 5	10	15	20	25	30	JUN 5	10	15	20	25	30	JUL 5	10	15	20	25	30	AUG 5	10	15	20	25	30
0800	.56	.57	.58	.59	.60	.60	.60	.60	.60	.60	.60	.59	.59	.58	.58	.57	.56	.55	.54	.54	.53	.52	.51	.50
	758	771	781	789	795	798	800	799	797	794	789	784	777	769	761	753	744	735	723	713	703	692	681	669
15	.61	.62	.63	.63	.64	.64	.64	.64	.64	.64	.64	.63	.63	.62	.62	.61	.61	.60	.59	.58	.57	.56	.55	.54
	817	829	839	846	852	855	856	856	854	850	846	840	834	827	819	811	802	794	782	771	760	753	742	730
30	.65	.66	.67	.67	.68	.68	.69	.69	.68	.68	.68	.68	.67	.67	.66	.65	.65	.64	.63	.62	.62	.61	.60	.59
	873	885	894	901	906	909	910	909	907	904	900	894	888	882	874	867	859	850	840	830	821	811	800	789
45	.69	.70	.71	.71	.72	.72	.72	.72	.72	.72	.72	.71	.71	.71	.70	.69	.69	.68	.67	.66	.66	.65	.64	.63
	927	938	947	953	958	960	961	961	958	955	951	946	940	934	927	920	912	904	894	885	876	866	856	845
0900	.73	.74	.74	.75	.75	.76	.76	.76	.76	.76	.76	.75	.75	.74	.74	.73	.73	.72	.71	.70	.70	.69	.68	.67
	977	988	996	*002	*006	*009	*010	*009	*007	*004	*000	995	989	983	977	970	963	955	946	937	928	919	908	897
15	.76	.77	.78	.78	.79	.79	.79	.79	.79	.79	.79	.79	.78	.78	.77	.77	.76	.76	.75	.74	.73	.72	.71	.70
	*024	*034	*042	*048	*052	*054	*055	*054	*052	*049	*045	*041	*036	030	*024	*017	*011	*003	994	985	977	968	958	947
30	.79	.80	.81	.82	.82	.82	.83	.83	.83	.82	.82	.82	.81	.81	.81	.80	.80	.79	.78	.77	.77	.76	.75	.74
	*068	*078	*085	*091	*094	*096	*097	*096	*094	*091	*088	*083	*078	*073	*068	*061	*055	*048	*039	*031	*023	*014	*004	993
45	.82	.83	.84	.85	.85	.85	.85	.85	.85	.85	.85	.85	.84	.84	.84	.83	.83	.82	.81	.81	.80	.79	.78	.77
	*108	*117	*124	*129	*133	*135	*135	*134	*133	*130	*126	*123	*118	*113	*108	*102	*096	*089	*081	*073	*065	*056	*046	*035
1000	.85	.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.84	.83	.83	.82	.81	.80
	*144	*153	*160	*164	*168	*169	*170	*169	*167	*165	*162	*158	*154	*149	*144	*139	*133	*127	*119	*111	*103	*094	*084	*073
15	.87	.88	.89	.89	.90	.90	.90	.90	.90	.90	.90	.90	.90	.89	.89	.88	.88	.87	.87	.86	.85	.84	.83	.82
	*176	*185	*191	*196	*199	*200	*201	*200	*199	*196	*194	*190	*186	*182	*177	*172	*167	*161	*153	*145	*137	*128	*118	*107
30	.90	.90	.91	.92	.92	.92	.92	.92	.92	.92	.92	.92	.92	.91	.91	.91	.90	.90	.89	.88	.87	.87	.86	.85
	*204	*212	*218	*223	*226	*227	*228	*227	*226	*224	*221	*218	*215	*211	*207	*202	*197	*191	*183	*175	*168	*159	*148	*137
45	.91	.92	.93	.93	.94	.94	.94	.94	.94	.94	.94	.94	.94	.93	.93	.93	.92	.92	.91	.90	.89	.89	.88	.87
	*228	*236	*242	*246	*249	*250	*251	*251	*249	*248	*245	*242	*239	*236	*232	*227	*222	*217	*209	*202	*194	*185	*174	*162

MAY-AUG 34 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.93	.94	.94	.95	.95	.95	.96	.96	.96	.96	.96	.95	.95	.95	.95	.94	.94	.93	.93	.92	.91	.90	.89	.88
	*247	*255	*260	*265	*267	*269	*270	*270	*269	*267	*265	*263	*260	*256	*253	*248	*244	*238	*231	*223	*215	*206	*196	*184
15	.94	.95	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.96	.96	.96	.95	.95	.95	.94	.93	.92	.91	.90	.89
	*262	*269	*275	*279	*282	*284	*284	*284	*284	*282	*281	*279	*276	*273	*269	*266	*261	*256	*248	*241	*233	*223	*212	*200
30	.95	.95	.96	.96	.97	.97	.97	.98	.98	.98	.98	.97	.97	.97	.97	.96	.96	.96	.95	.94	.93	.92	.91	.90
	*273	*280	*285	*289	*292	*294	*295	*295	*294	*294	*292	*290	*288	*285	*282	*278	*274	*269	*261	*254	*246	*236	*225	*212
45	.95	.96	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.96	.95	.95	.94	.93	.92	.91
	*279	*285	*291	*295	*298	*300	*301	*301	*301	*300	*299	*298	*296	*293	*290	*287	*282	*277	*270	*263	*254	*244	*232	*219
1200	.95	.96	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.96	.95	.94	.93	.92	.91
	*280	*286	*292	*296	*299	*301	*303	*303	*303	*303	*302	*301	*299	*297	*294	*291	*287	*281	*274	*266	*258	*247	*235	*222
15	.95	.96	.96	.97	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.96	.95	.94	.93	.92	.91
	*276	*283	*288	*292	*296	*298	*300	*301	*301	*301	*301	*300	*298	*296	*294	*290	*286	*281	*274	*266	*257	*246	*234	*220
30	.94	.95	.96	.96	.97	.97	.97	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.96	.95	.95	.94	.93	.92	.90
	*269	*275	*280	*285	*288	*291	*293	*294	*295	*295	*295	*294	*293	*291	*289	*286	*282	*276	*269	*261	*251	*240	*227	*213
45	.93	.94	.95	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.95	.91	.93	.92	.91	.89
	*256	*263	*268	*272	*276	*279	*281	*283	*284	*285	*285	*284	*283	*282	*280	*276	*272	*267	*259	*251	*241	*230	*217	*201
1300	.92	.93	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.92	.91	.90	.88
	*239	*246	*251	*256	*260	*263	*266	*268	*269	*270	*270	*270	*270	*268	*266	*263	*259	*254	*245	*237	*227	*215	*201	*185
15	.91	.91	.92	.92	.93	.93	.94	.94	.94	.94	.95	.95	.95	.94	.94	.94	.94	.93	.92	.91	.90	.89	.88	.87
	*218	*224	*230	*235	*239	*243	*246	*248	*250	*251	*252	*252	*252	*250	*248	*245	*241	*236	*227	*218	*208	*195	*181	*165
30	.89	.89	.90	.91	.91	.92	.92	.92	.93	.93	.93	.93	.93	.93	.93	.92	.92	.91	.91	.90	.89	.88	.86	.85
	*192	*199	*205	*210	*214	*218	*222	*225	*227	*228	*229	*230	*228	*228	*226	*223	*219	*213	*205	*196	*184	*171	*156	*139
45	.86	.87	.88	.88	.89	.89	.90	.90	.90	.91	.91	.91	.91	.91	.91	.90	.90	.89	.89	.88	.87	.85	.84	.83
	*162	*169	*175	*181	*186	*190	*194	*197	*199	*201	*203	*203	*203	*202	*200	*197	*193	*187	*178	*168	*157	*143	*128	*110

MAY-AUG 34 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z = 1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.84	.85	.85	.86	.86	.87	87	.88	.88	.88	.89	.89	.8[illegible]	.[illegible]	.[illegible]	.88	.88	.87	.86	.[illegible]	.[illegible]	.84	.83	.82	.80
		*128	*135	*142	*148	*153	*157	*162	*166	*168	*171	*172	*173	*17[illegible]	*[illegible]	*170	*167	*163	*156	*147	*13[illegible]	*[illegible]	*111	*094	*076
15		.81	.82	.82	.83	.84	.84	.85	.85	.86	.86	.86	.86	.86	.86	.86	.86	.85	.84	.84	.83	.82	.80	.79	.77
		*090	*098	*104	*111	*116	*121	*126	*130	*133	*136	*138	*139	*13[illegible]	*[illegible]	*137	*133	*129	*122	*112	*10[illegible]	*[illegible]	074	*057	*038
30		.78	.79	.79	.80	.81	.81	.82	.82	.83	.83	.83	.83	.83	.83	.83	.83	.82	.82	.81	.80	.[illegible]	.77	.76	.74
		*048	*056	*063	*070	*076	*081	*087	*091	*095	*098	*100	*101	*10[illegible]	*101	*099	*096	*091	*084	*073	*06[illegible]	*[illegible]	034	*016	997
45		.75	.75	.76	.77	.77	.78	.79	.79	.79	.80	.80	.80	.80	.80	.80	.80	.79	.78	.78	.77	.75	.74	.72	.71
		*003	*011	*019	*026	*032	*038	*045	*049	*053	*056	*059	*060	*061	*06[illegible]	*059	*054	*049	*042	*031	*02[illegible]	*[illegible]	990	972	951
1500		.71	.72	.73	.73	.74	.75	.75	.76	.76	.76	.77	.77	.77	.77	.77	.76	.76	.75	.74	.73	.72	.70	.69	.67
		954	963	971	978	985	992	999	*004	*008	*012	*014	*016	*016	*016	*014	*010	*004	997	985	97[illegible]	[illegible]	942	923	902
15		.67	.68	.69	.69	.70	.71	.71	.72	.72	.73	.73	.73	.73	.73	.73	.73	.72	.71	.70	.6[illegible]	.68	.67	.65	.63
		902	911	920	928	935	942	950	955	960	964	967	968	969	968	966	962	956	948	936	92[illegible]	[illegible]	891	872	850
30		.63	.64	.65	.65	.66	.67	.68	.68	.69	.69	.69	.69	.69	.69	.69	.69	.68	.68	.66	.6[illegible]	.[illegible]	.63	.61	.59
		847	857	866	874	882	890	898	904	909	913	916	918	919	918	915	911	905	897	884	871	[illegible]	837	817	794
45		.59	.60	.60	.61	.62	.63	.63	.64	.65	.65	.65	.65	.65	.65	.65	.65	.64	.63	.62	.61	.60	.58	.57	.55
		790	800	809	818	827	835	843	850	855	859	863	865	866	865	862	858	851	843	829	815	[illegible]	780	759	736
1600		.54	.55	.56	.57	.58	.58	.59	.60	.60	.61	.61	.61	.61	.61	.61	.61	.60	.59	.58	.57	.55	.54	.52	.50
		729	740	750	760	769	777	786	793	799	804	807	809	810	809	806	802	795	786	772	757	740	721	699	675
15		.50	.51	.51	.52	.53	.54	.55	.55	.56	.56	.57	.57	.57	.57	.57	.56	.56	.55	.54	.52	.51	.49	.47	.46
		667	678	689	699	709	718	727	734	741	746	749	752	752	751	748	743	736	726	712	697	679	659	636	611
30		.45	.46	.47	.48	.49	.49	.50	.51	.51	.52	.52	.52	.52	.52	.52	.52	.51	.50	.49	.4[illegible]	.46	.44	.43	.41
		603	614	626	636	647	656	666	674	680	686	690	692	693	691	688	683	675	565	650	634	[illegible]	595	572	546
45		.40	.41	.42	.43	.44	.45	.45	.46	.47	.47	.47	.48	.48	.48	.47	.47	.46	.45	.44	.43	.41	.40	.38	.36
		537	549	561	572	583	593	604	612	619	624	628	630	631	630	626	621	612	602	586	569	[illegible]	529	505	479

MAY-AUG 34 N TABLE B-1 SOLAR PARAMETERS COS Z
XC (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.35	.36	.37	.38	.39	.40	.41	.41	.42	.42	.43	.43	.43	.43	.43	.42	.41	.40	.39	.38	.36	.35	.33	.31
	469	482	495	507	518	528	540	548	555	561	565	568	568	567	563	557	548	537	520	503	484	461	437	410
15	.30	.31	.32	.33	.34	.35	.36	.36	.37	.38	.38	.38	.38	.38	.38	.37	.36	.36	.34	.33	.31	.29	.27	.25
	400	414	427	440	452	463	475	484	491	497	501	504	504	502	498	492	483	471	454	435	416	393	367	340
30	.25	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33	.33	.33	.33	.32	.31	.30	.29	.28	.26	.24	.22	.20
	331	345	359	372	385	396	409	418	426	432	436	439	439	437	433	426	416	404	386	368	347	323	297	269
45	.19	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28	.28	.28	.28	.27	.26	.25	.24	.22	.21	.19	.17	.15
	261	276	291	304	317	330	343	352	360	366	371	373	373	371	366	359	349	336	317	296	277	253	226	197
1800	.14	.15	.17	.18	.19	.20	.21	.22	.22	.23	.23	.23	.23	.23	.23	.22	.21	.20	.19	.17	.16	.14	.12	.09
	191	207	222	236	250	262	276	286	294	300	305	307	307	305	300	292	281	268	249	229	207	182	155	125
15	.09	.10	.11	.13	.14	.15	.16	.17	.17	.18	.18	.18	.18	.18	.18	.17	.16	.15	.14	.12	.10	.08	.06	.04
	121	137	153	168	182	195	209	219	228	234	239	241	241	238	233	225	214	200	180	159	137	111	083	053
30	.04	.05	.06	.08	.09	.10	.11	.12	.12	.13	.13	.13	.13	.13	.13	.12	.11	.10	.08	.07	.05	.03	.01	.00
	051	068	084	100	115	129	143	153	162	169	173	175	175	172	166	158	146	132	111	090	067	041	012	000
45	.00	.00	.01	.03	.04	.05	.06	.07	.07	.08	.08	.08	.08	.08	.08	.07	.06	.05	.03	.02	.00	.00	.00	.00
	000	000	017	033	048	062	077	088	097	103	108	110	109	106	100	091	079	064	042	021	000	000	000	000
1900	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03	.03	.03	.03	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	013	023	032	039	044	045	045	041	035	025	013	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 34 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	028	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.08	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	100	085	069	053	036	019	001	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.13	.12	.11	.09	.08	.07	.06	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	173	158	143	127	110	093	075	056	036	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.15	.14	.12	.11	.09	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	245	231	216	200	183	166	148	129	109	088	066	044	016	000	000	000	000	000	000	000	000	000	000	000
45	.24	.22	.21	.20	.19	.18	.16	.15	.13	.12	.10	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	317	302	288	272	256	239	221	202	181	160	138	115	087	064	040	017	000	000	000	000	000	000	000	000
0700	.29	.28	.27	.25	.24	.23	.21	.20	.18	.17	.15	.13	.11	.10	.08	.06	.05	.03	.02	.00	.00	.00	.00	.00
	387	373	359	343	327	310	292	273	252	231	208	185	157	133	109	086	063	042	022	001	000	000	000	000
15	.34	.33	.32	.30	.29	.28	.26	.25	.23	.22	.20	.18	.16	.14	.13	.11	.09	.08	.06	.05	.04	.03	.02	.02
	457	443	429	413	397	380	362	342	322	300	277	254	225	201	177	153	130	109	089	070	055	042	031	024
30	.39	.38	.37	.35	.34	.33	.31	.30	.28	.27	.25	.23	.21	.19	.17	.16	.14	.12	.11	.10	.09	.08	.07	.06
	524	511	497	482	465	448	430	410	389	367	344	320	291	267	242	219	196	174	154	136	120	107	097	090
45	.44	.43	.42	.40	.39	.38	.36	.35	.33	.31	.30	.28	.26	.24	.22	.20	.18	.17	.15	.14	.13	.12	.11	.11
	590	577	563	548	532	514	495	476	454	432	409	385	355	331	306	282	259	237	217	199	184	171	161	155

SEP-DEC 34 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800		.49	.47	.46	.45	.44	.42	.41	.39	.38	.36	.34	.32	.30	.28	.26	.25	.23	.21	.20	.18	.17	.17	.16	.15
		654	641	627	612	595	578	559	539	517	495	471	447	417	392	367	343	320	298	278	260	245	233	223	217
15		.53	.52	.51	.50	.48	.47	.45	.44	.42	.40	.38	.36	.34	.32	.30	.29	.27	.25	.24	.23	.22	.21	.20	.20
		716	703	688	673	657	639	620	599	578	555	531	506	476	451	426	402	378	357	337	319	304	292	283	278
30		.57	.56	.55	.54	.53	.51	.49	.48	.46	.44	.42	.41	.39	.38	.36	.34	.33	.31	.29	.28	.27	.26	.25	.24	.24
		774	761	747	732	715	697	678	657	635	612	588	563	532	507	482	457	434	413	393	375	361	349	341	335
45		.62	.60	.59	.58	.57	.55	.53	.52	.50	.48	.46	.44	.42	.40	.38	.36	.35	.33	.32	.30	.29	.29	.28	.28
		830	817	803	787	770	752	733	712	689	666	641	616	585	560	534	510	487	465	446	429	414	403	395	390
0900		.66	.64	.63	.62	.60	.59	.57	.56	.54	.52	.50	.48	.46	.44	.42	.40	.38	.37	.35	.34	.33	.32	.32	.31
		883	870	855	840	822	804	784	763	740	716	691	666	635	609	584	559	536	515	496	479	465	454	446	442
15		.69	.68	.67	.65	.64	.62	.61	.59	.57	.55	.53	.51	.49	.47	.45	.43	.41	.40	.38	.37	.36	.36	.35	.35
		932	919	904	888	871	852	832	810	787	763	738	712	681	655	630	605	582	561	542	525	512	502	495	491
30		.73	.71	.70	.69	.67	.66	.64	.62	.60	.58	.56	.54	.52	.50	.48	.46	.44	.43	.42	.40	.39	.39	.38	.38
		978	964	950	933	916	896	876	854	830	806	780	754	723	697	672	647	624	603	585	569	556	546	539	537
45		.76	.74	.73	.72	.70	.69	.67	.65	.63	.61	.59	.57	.55	.53	.51	.49	.47	.46	.44	.43	.42	.41	.41	.41
		*020	*006	991	975	956	937	916	893	869	845	819	793	761	735	710	686	663	642	624	608	596	586	580	578
1000		.78	.77	.76	.74	.73	.71	.69	.68	.66	.64	.62	.60	.57	.55	.53	.51	.50	.48	.47	.46	.45	.44	.44	.44
		*058	*044	*029	*012	993	973	952	929	904	879	853	827	795	769	744	720	697	677	659	644	632	623	618	616
15		.81	.80	.78	.77	.75	.74	.72	.70	.68	.66	.64	.62	.59	.57	.55	.53	.52	.50	.49	.48	.47	.46	.46	.46
		*092	*077	*062	*014	*025	*005	983	960	935	910	883	857	825	799	774	750	727	707	690	675	664	655	651	650
30		.83	.82	.80	.79	.77	.76	.74	.72	.70	.68	.66	.64	.61	.59	.57	.55	.54	.52	.51	.50	.49	.48	.48	.48
		*121	*107	*091	*073	*053	*032	*010	986	961	936	909	882	850	824	799	775	753	734	716	702	691	684	680	680
45		.85	.84	.82	.81	.79	.77	.75	.73	.71	.69	.67	.65	.63	.61	.59	.57	.55	.54	.52	.51	.51	.50	.50	.50
		*146	*131	*115	*097	*077	*055	*033	*008	983	957	930	903	871	845	820	796	775	755	739	725	715	708	705	705

SEP-DEC 24 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

**** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.87	.85	.84	.82	.80	.79	.77	.75	.73	.70	.68	.66	.64	.62	.60	.58	.56	.55	.54	.53	.52	.51	.51	.51
	*167	*152	*135	*116	*096	*074	*050	*026	*000	973	947	919	887	861	836	813	792	773	757	744	734	728	725	727
15	.88	.86	.85	.83	.81	.80	.78	.76	.73	.71	.69	.67	.65	.62	.61	.59	.57	.56	.55	.54	.53	.53	.52	.53
	*183	*167	*150	*131	*110	*087	*063	*038	*012	985	958	931	899	873	848	825	804	786	770	758	749	743	741	743
30	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.67	.65	.63	.61	.59	.58	.56	.55	.54	.54	.53	.53	.53
	*195	*178	*160	*140	*119	*096	*072	*046	*020	992	965	938	905	880	855	833	812	794	779	767	759	754	753	756
45	.89	.88	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.65	.63	.61	.60	.58	.57	.56	.55	.54	.54	.54	.54
	*201	*184	*166	*145	*123	*100	*075	*049	*022	995	967	940	907	882	858	835	815	798	783	772	764	760	760	763
1200	.89	.88	.86	.84	.82	.80	.78	.76	.74	.72	.70	.67	.65	.63	.61	.59	.58	.57	.56	.55	.54	.54	.54	.54
	*203	*186	*167	*146	*123	*099	*073	*047	*020	992	964	937	905	879	855	833	814	797	783	772	765	762	762	766
15	.89	.88	.86	.84	.82	.80	.78	.76	.73	.71	.69	.67	.64	.62	.61	.59	.57	.56	.55	.54	.54	.54	.54	.54
	*200	*182	*163	*141	*118	*093	*067	*040	*013	985	957	929	897	872	848	827	807	791	778	768	761	759	760	765
30	.89	.87	.85	.83	.81	.79	.77	.75	.73	.70	.68	.66	.64	.62	.60	.58	.57	.55	.55	.54	.53	.53	.53	.54
	*193	*174	*154	*132	*108	*082	*056	*029	*001	973	944	917	885	860	836	815	797	781	768	759	753	751	753	759
45	.88	.86	.84	.82	.80	.78	.76	.74	.71	.69	.67	.65	.62	.60	.59	.57	.56	.54	.53	.53	.52	.52	.52	.53
	*181	*161	*140	*117	*093	*067	*040	*012	984	956	927	900	868	843	820	799	781	766	754	745	740	739	741	748
1300	.86	.85	.83	.81	.79	.77	.74	.72	.70	.68	.65	.63	.61	.59	.57	.56	.54	.53	.52	.52	.51	.51	.51	.52
	*164	*144	*122	*098	*073	*047	*020	991	963	934	906	878	846	822	799	779	761	746	735	727	723	722	726	732
15	.85	.83	.81	.79	.77	.75	.73	.70	.68	.66	.63	.61	.59	.57	.55	.54	.52	.51	.51	.50	.50	.50	.50	.50
	*142	*122	*099	*075	*049	*022	994	966	937	908	879	852	820	796	774	754	737	723	712	705	701	701	705	713
30	.83	.81	.79	.77	.75	.73	.70	.68	.66	.63	.61	.59	.57	.55	.53	.52	.50	.49	.49	.48	.48	.48	.48	.49
	*116	*095	*072	*047	*021	993	965	936	906	877	849	821	790	766	744	725	708	695	684	678	675	676	680	688
45	.81	.79	.77	.75	.72	.70	.68	.66	.63	.61	.59	.57	.54	.52	.51	.49	.48	.47	.46	.46	.46	.46	.46	.47
	*086	*064	*040	*015	988	959	930	901	872	842	814	786	755	731	710	691	675	662	653	647	645	646	651	660

SEP-DEC 34 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.78	.76	.74	.72	.70	.67	.65	.63	.60	.58	.56	.54	.51	.50	.48	.47	.45	.44	.44	.43	.43	.43	.44	.44
	•051	•029	•004	978	950	922	892	862	833	803	775	747	716	693	672	653	638	626	617	612	610	612	618	627
15	.75	.73	.71	.69	.67	.64	.62	.60	.57	.55	.53	.51	.49	.47	.45	.44	.43	.42	.41	.41	.40	.41	.41	.42
	•013	989	964	937	909	880	850	820	790	760	731	704	674	650	630	612	597	585	577	573	572	574	581	591
30	.72	.70	.68	.66	.63	.61	.59	.56	.54	.52	.49	.47	.45	.43	.42	.40	.39	.38	.38	.38	.38	.38	.38	.39
	970	946	920	892	863	834	803	773	743	713	684	657	627	604	584	567	552	541	534	530	530	533	540	550
45	.69	.67	.64	.62	.60	.57	.55	.53	.50	.48	.46	.44	.41	.40	.38	.37	.36	.35	.35	.34	.34	.35	.35	.36
	924	899	872	844	814	784	753	723	692	662	634	607	577	554	535	518	504	494	487	484	484	488	495	506
1500	.65	.63	.61	.58	.56	.54	.51	.49	.46	.44	.42	.40	.38	.36	.34	.33	.32	.31	.31	.31	.31	.31	.32	.32
	874	848	821	792	762	731	700	669	638	608	580	553	523	501	482	466	453	443	436	434	435	439	447	458
15	.61	.59	.57	.54	.52	.49	.47	.45	.42	.40	.38	.36	.34	.32	.30	.29	.28	.28	.27	.27	.27	.27	.28	.29
	821	794	766	737	706	675	643	612	581	551	523	496	467	445	426	410	398	389	383	381	382	387	396	407
30	.57	.55	.52	.50	.48	.45	.43	.40	.38	.36	.33	.31	.29	.28	.26	.25	.24	.24	.23	.23	.23	.24	.24	.25
	764	737	708	678	647	615	584	552	521	491	463	436	407	386	368	352	340	332	326	325	327	332	341	353
45	.52	.50	.48	.45	.43	.41	.38	.36	.33	.31	.29	.27	.25	.23	.22	.21	.20	.19	.19	.19	.19	.19	.20	.21
	705	677	648	617	585	553	521	489	458	428	400	374	345	324	306	291	280	272	267	266	269	275	284	296
1600	.48	.46	.43	.41	.38	.36	.33	.31	.29	.26	.24	.22	.20	.19	.17	.16	.16	.15	.15	.15	.15	.15	.16	.17
	643	615	585	553	521	489	456	424	393	363	335	309	281	260	243	228	217	210	206	205	208	215	224	237
15	.43	.41	.38	.36	.33	.31	.28	.26	.24	.21	.19	.17	.15	.14	.13	.12	.11	.10	.10	.10	.10	.11	.11	.12
	579	550	519	487	455	422	389	357	325	296	268	242	214	194	177	163	153	146	142	142	145	152	162	175
30	.38	.36	.33	.31	.28	.26	.23	.21	.19	.16	.14	.12	.10	.09	.08	.07	.06	.06	.05	.05	.06	.06	.07	.08
	513	483	452	419	386	353	320	287	256	226	198	173	146	126	109	096	086	080	077	077	081	088	098	111
45	.33	.31	.28	.26	.23	.21	.18	.16	.13	.11	.09	.07	.05	.04	.03	.02	.01	.01	.01	.01	.01	.02	.02	.03
	445	414	382	349	316	282	249	217	185	156	128	103	076	056	040	027	018	012	009	010	014	022	032	045

SEP-DEC 34 N TABLE B-1 SOLAR PARAMETERS COS Z
TO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY •

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.25	.23	.21	.18	.15	.13	.11	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	375	344	312	278	244	211	177	145	113	084	056	031	005	000	000	000	000	000	000	000	000	000	000	000
15	.23	.20	.18	.15	.13	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	304	273	240	206	172	138	104	071	040	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.07	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	232	200	167	133	098	064	030	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	160	128	094	059	025	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	088	055	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 34 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	048
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	043	071	097	121
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.09	.11	.13	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	019	057	088	118	145	170	193
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.12	.14	.16	.18	.20
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	062	095	133	163	192	219	243	265
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.08	.10	.12	.15	.18	.20	.22	.23	.25
	000	000	000	000	000	000	000	000	000	000	000	000	010	041	073	106	138	171	208	238	266	292	316	337
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.06	.08	.11	.13	.16	.18	.21	.23	.25	.27	.29	.30
	000	000	000	000	000	000	000	000	000	000	012	039	086	117	149	182	214	246	283	312	340	365	388	409
0700	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.06	.08	.12	.14	.16	.19	.21	.23	.26	.28	.30	.32	.34	.36
	000	000	000	000	000	000	002	021	040	062	087	114	161	193	225	257	289	320	357	385	412	437	459	479
15	.03	.03	.03	.03	.04	.04	.05	.07	.08	.10	.12	.14	.17	.19	.22	.24	.26	.29	.31	.34	.36	.37	.39	.41
	045	043	042	045	051	061	074	094	114	136	161	189	236	267	299	331	363	394	429	457	484	508	529	548
30	.08	.08	.08	.08	.09	.09	.10	.12	.13	.15	.17	.19	.22	.25	.27	.29	.32	.34	.37	.39	.41	.43	.44	.46
	113	111	111	115	121	132	145	166	186	209	234	262	309	340	372	403	435	465	500	528	553	577	597	616
45	.13	.13	.13	.13	.13	.14	.15	.17	.18	.20	.22	.24	.27	.30	.32	.34	.37	.39	.42	.44	.46	.47	.49	.51
	180	178	178	182	190	201	215	236	256	280	305	333	381	412	443	474	505	535	570	593	621	644	664	682

JAN-APR 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

| MST | DATE | | |

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.54	.55	.55	.56	.57	.59	.60	.63	.64	.66	.69	.71	.74	.76	.79	.81	.83	.84	.87	.89	.90	.91	.92	.93
	768	773	783	795	811	830	851	879	905	932	960	988	*033	*061	*088	*113	*137	*159	*184	*202	*217	*231	*243	*253
15	.56	.56	.57	.58	.59	.60	.62	.64	.66	.68	.70	.72	.76	.78	.80	.82	.84	.86	.88	.89	.91	.92	.93	.94
	786	791	801	815	831	850	872	901	927	954	981	*010	*054	*082	*108	*133	*156	*178	*202	*219	*234	*248	*259	*268
30	.56	.57	.58	.59	.60	.61	.63	.65	.67	.69	.71	.74	.77	.79	.81	.83	.85	.87	.89	.90	.92	.93	.94	.95
	799	805	815	829	846	866	888	918	944	971	998	*027	*071	*098	*124	*148	*171	*192	*215	*232	*248	*259	*270	*279
45	.57	.58	.58	.59	.61	.62	.64	.66	.68	.70	.72	.74	.78	.80	.82	.84	.86	.88	.89	.91	.92	.93	.94	.95
	807	814	825	839	857	877	900	929	956	983	*011	*038	*082	*109	*134	*158	*181	*201	*223	*240	*254	*266	*277	*285
1200	.57	.58	.59	.60	.61	.63	.64	.67	.69	.71	.73	.75	.78	.80	.82	.84	.86	.88	.90	.91	.92	.94	.95	.95
	810	817	830	845	863	884	906	936	963	990	*018	*045	*089	*115	*140	*163	*185	*205	*227	*242	*256	*268	*278	*287
15	.57	.58	.59	.60	.61	.63	.64	.67	.69	.71	.73	.75	.78	.80	.82	.84	.86	.88	.90	.91	.92	.93	.94	.95
	809	817	829	845	864	885	908	938	965	992	*020	*047	*090	*116	*141	*164	*185	*204	*225	*240	*254	*265	*275	*283
30	.57	.57	.58	.59	.61	.62	.64	.67	.69	.71	.73	.75	.78	.80	.82	.84	.86	.87	.89	.90	.92	.93	.94	.95
	803	811	825	841	860	882	905	936	962	990	*017	*044	*087	*112	*136	*159	*180	*198	*219	*234	*247	*258	*267	*275
45	.56	.57	.58	.59	.60	.62	.64	.66	.68	.70	.72	.74	.78	.80	.81	.83	.85	.87	.88	.90	.91	.92	.93	.94
	792	801	815	832	851	873	897	928	955	982	*009	*036	*078	*103	*127	*149	*169	*188	*207	*222	*234	*245	*255	*263
1300	.55	.56	.57	.58	.59	.61	.63	.65	.67	.69	.71	.73	.77	.79	.80	.82	.84	.85	.87	.88	.90	.91	.92	.92
	777	786	801	818	838	860	885	915	942	969	997	*023	*065	*089	*113	*134	*154	*172	*191	*205	*218	*228	*237	*245
15	.54	.54	.55	.57	.58	.60	.62	.64	.66	.68	.70	.72	.75	.77	.79	.81	.82	.84	.86	.87	.88	.89	.90	.91
	757	767	782	800	820	843	867	898	925	952	979	*006	*047	*071	*093	*114	*134	*151	*170	*184	*196	207	*216	*223
30	.52	.53	.54	.55	.56	.58	.60	.62	.64	.66	.68	.70	.74	.75	.77	.79	.81	.82	.84	.85	.86	.87	.88	.89
	733	743	758	777	797	820	845	876	903	930	956	983	*023	*047	*069	*090	*109	*126	*144	*158	*170	*180	*189	*197
45	.50	.51	.52	.53	.55	.56	.58	.60	.62	.64	.66	.68	.72	.73	.75	.77	.78	.80	.81	.83	.84	.85	.86	.86
	704	714	730	749	770	793	818	849	876	903	929	955	995	*019	*041	*061	*079	*096	*114	*127	*139	*149	*158	*166

JAN-APR 32 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25
1400	.47	.48	.49	.51	.52	.54	.56	.58	.60	.62	.64	.66
	671	682	698	717	738	762	787	816	844	871	898	923
15	.45	.46	.47	.48	.50	.51	.53	.56	.58	.60	.62	.64
	633	645	662	681	703	726	751	782	809	835	861	887
30	.42	.43	.44	.45	.47	.49	.50	.53	.55	.57	.59	.61
	592	604	621	641	663	686	711	742	769	795	821	846
45	.39	.40	.41	.42	.44	.46	.47	.50	.52	.54	.55	.57
	547	559	577	597	619	642	*667	698	724	751	776	801
1500	.35	.36	.37	.39	.40	.42	.44	.46	.48	.50	.52	.54
	498	511	529	549	571	595	619	650	676	702	728	752
15	.32	.32	.34	.35	.37	.39	.40	.43	.44	.46	.48	.50
	446	459	477	497	520	543	568	599	625	650	675	700
30	.28	.29	.30	.31	.33	.35	.36	.39	.41	.42	.44	.46
	391	404	422	443	465	469	513	544	569	595	619	643
45	.24	.24	.26	.27	.29	.31	.32	.35	.36	.38	.40	.42
	333	346	364	385	407	431	455	486	511	536	560	584
1600	.19	.20	.22	.23	.25	.26	.28	.30	.32	.34	.36	.37
	272	285	304	324	347	370	394	424	449	474	498	522
15	.15	.16	.17	.19	.20	.22	.24	.26	.27	.29	.31	.33
	209	222	241	261	283	307	331	360	385	410	433	456
30	.10	.11	.12	.14	.15	.17	.19	.21	.23	.24	.26	.28
	144	157	175	196	218	241	265	294	318	342	366	389
45	.05	.06	.08	.09	.11	.12	.14	.16	.18	.20	.21	.23
	076	090	108	128	150	173	197	226	250	273	296	319

MST	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1400	.69	.71	.73	.74	.76	.77	.79	.80	.81	.82	.83	.84
	963	980	*007	*027	*045	*062	*079	*092	*104	*114	*123	*131
15	.67	.68	.70	.72	.73	.75	.76	.77	.78	.79	.80	.81
	926	948	969	989	*007	*023	*040	*053	*065	*075	*084	*092
30	.64	.65	.67	.69	.70	.71	.73	.74	.75	.76	.77	.78
	884	907	927	946	964	980	997	*010	*021	*032	*041	*049
45	.60	.62	.64	.65	.67	.68	.69	.71	.72	.73	.74	.74
	839	861	881	900	917	933	950	963	974	984	994	*002
1500	.57	.58	.60	.62	.63	.64	.66	.67	.68	.69	.70	.71
	789	811	831	850	867	882	899	912	923	934	943	952
15	.53	.55	.56	.58	.59	.60	.62	.63	.64	.65	.66	.67
	736	757	777	795	812	828	845	857	869	880	889	899
30	.49	.50	.52	.53	.55	.56	.58	.59	.60	.61	.62	.62
	679	700	720	738	755	770	787	800	811	822	832	842
45	.45	.46	.48	.49	.50	.52	.53	.54	.55	.56	.57	.58
	620	640	659	677	694	709	726	739	751	762	773	783
1600	.40	.42	.43	.44	.46	.47	.48	.50	.51	.52	.53	.53
	557	577	596	614	630	645	662	675	688	699	710	721
15	.35	.37	.38	.40	.41	.42	.44	.45	.46	.47	.48	.49
	491	511	530	547	564	579	596	609	622	634	645	656
30	.30	.32	.33	.35	.36	.37	.39	.40	.41	.42	.43	.44
	423	443	461	479	495	510	528	541	554	566	578	590
45	.25	.27	.28	.30	.31	.32	.33	.35	.36	.37	.38	.39
	352	372	391	408	424	440	457	471	484	497	510	522

JAN-APR 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.01	.02	.03	.04	.06	.07	.09	.11	.13	.14	.16	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.33	.34
	008	021	039	059	081	104	127	155	179	202	225	247	280	300	318	335	352	368	365	399	413	426	439	452
15	.00	.00	.00	.00	.01	.02	.04	.06	.08	.09	.11	.12	.15	.16	.18	.19	.20	.21	.23	.24	.25	.26	.27	.28
	000	000	000	000	010	032	055	083	107	130	152	174	206	226	244	261	278	294	312	329	341	354	368	381
30	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.06	.07	.09	.11	.12	.14	.15	.16	.17	.19	.20	.21	.22	.23
	000	000	000	000	000	000	000	010	033	056	078	099	131	151	169	186	203	219	238	253	267	281	296	309
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.07	.08	.09	.11	.12	.13	.14	.15	.17	.18
	000	000	000	000	000	000	000	000	000	000	002	023	056	075	093	110	127	144	162	178	193	208	223	237
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.05	.06	.08	.09	.10	.11	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	016	034	051	068	087	103	119	134	149	165
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.04	.06	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	028	044	060	076	092
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	020
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 32 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.01	.01	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	007	009	009	007	002	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.01	.03	.04	.05	.05	.06	.06	.06	.06	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	018	035	049	059	068	074	076	075	072	067	061	052	041	030	017	003	000	000	000	000	000	000	000
30	.05	.07	.08	.09	.10	.10	.11	.11	.11	.11	.10	.10	.09	.08	.07	.06	.05	.04	.03	.02	.01	.00	.00	.00
	070	089	105	118	128	135	141	143	142	139	134	127	118	108	097	084	071	057	040	025	010	000	000	000
45	.11	.12	.13	.14	.15	.15	.16	.16	.16	.16	.15	.15	.14	.13	.12	.12	.11	.10	.08	.07	.06	.05	.04	.03
	141	159	175	187	197	204	209	210	209	206	201	194	186	176	165	153	140	126	110	095	081	067	053	039
0600	.16	.17	.18	.19	.20	.21	.21	.21	.21	.21	.20	.20	.19	.18	.18	.17	.16	.15	.14	.13	.12	.10	.09	.08
	213	231	245	257	266	273	277	278	277	274	268	262	253	244	233	221	209	196	180	167	153	140	126	112
15	.21	.23	.24	.24	.25	.26	.26	.26	.26	.26	.25	.25	.24	.24	.23	.22	.21	.20	.19	.18	.17	.16	.15	.14
	285	302	316	327	335	341	345	346	344	341	336	329	321	312	301	290	278	266	251	238	225	212	199	186
30	.27	.28	.29	.30	.30	.31	.31	.31	.31	.31	.30	.30	.29	.29	.28	.27	.26	.25	.24	.23	.22	.21	.20	.19
	356	372	385	396	404	410	413	413	412	408	403	396	388	379	369	359	347	336	321	309	297	284	272	259
45	.32	.33	.34	.35	.35	.36	.36	.36	.36	.36	.36	.35	.34	.34	.33	.32	.31	.31	.29	.29	.28	.27	.26	.25
	427	442	455	465	472	477	480	480	478	475	470	463	455	447	437	427	416	405	391	379	368	356	344	332
0700	.37	.38	.39	.40	.40	.41	.41	.41	.41	.41	.40	.40	.39	.39	.38	.37	.37	.36	.35	.34	.33	.32	.31	.30
	497	511	523	532	539	544	546	546	544	541	536	529	522	513	504	494	484	473	460	449	438	427	415	404
15	.42	.43	.44	.45	.45	.46	.46	.46	.46	.46	.45	.45	.44	.44	.43	.42	.42	.41	.40	.39	.38	.37	.36	.35
	565	579	590	599	605	609	612	611	609	605	600	594	587	579	570	560	551	541	528	518	507	496	485	474
30	.47	.48	.49	.50	.50	.51	.51	.51	.51	.50	.50	.50	.49	.49	.48	.47	.46	.46	.45	.44	.43	.42	.41	.40
	632	645	656	664	670	673	675	675	672	669	664	658	651	643	634	625	616	607	595	585	575	564	554	543
45	.52	.53	.54	.54	.55	.55	.55	.55	.55	.55	.55	.54	.54	.53	.53	.52	.51	.51	.50	.49	.48	.47	.46	.45
	697	709	719	727	732	736	737	736	734	730	725	719	713	705	697	689	680	671	660	650	641	631	621	610

MAY-AUG 32 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800		.56	.58	.58	.59	.59	.60	.60	.60	.60	.60	.59	.59	.58	.58	.57	.57	.56	.55	.54	.54	.53	.52	.51	.50
		759	771	781	788	793	796	797	796	794	790	785	779	773	766	758	750	742	733	723	714	705	695	685	675
15		.61	.62	.63	.63	.64	.64	.64	.64	.64	.64	.64	.63	.63	.62	.62	.61	.60	.60	.59	.58	.57	.57	.56	.55
		820	831	840	847	851	854	855	854	851	847	843	837	831	824	817	810	802	794	784	775	766	757	748	738
30		.65	.66	.67	.68	.68	.68	.68	.68	.68	.68	.66	.67	.67	.67	.66	.65	.65	.64	.63	.63	.62	.61	.60	.59
		878	888	897	903	907	909	910	909	906	903	898	893	887	881	874	867	859	852	842	833	824	817	808	798
45		.69	.70	.71	.72	.72	.72	.72	.72	.72	.72	.72	.71	.71	.71	.70	.70	.69	.68	.68	.67	.66	.65	.65	.64
		932	942	950	956	960	962	962	961	958	955	951	946	940	934	928	921	914	907	898	890	882	874	865	855
0900		.73	.74	.75	.75	.76	.76	.76	.76	.76	.76	.76	.75	.75	.74	.74	.73	.73	.72	.71	.71	.70	.69	.69	.68
		984	994	*001	*006	*010	*011	*011	*010	*008	*004	*000	996	990	985	979	972	966	959	951	943	935	927	918	909
15		.77	.78	.78	.79	.79	.79	.80	.80	.80	.79	.79	.79	.78	.78	.78	.77	.77	.76	.75	.75	.74	.73	.72	.71
		*032	*041	*048	*053	*056	*058	*058	*056	*054	*051	*047	*043	*038	*032	*027	*021	*015	*008	*000	993	986	978	969	959
30		.80	.81	.82	.82	.82	.83	.83	.83	.83	.83	.82	.82	.82	.81	.81	.80	.80	.79	.79	.79	.77	.77	.76	.75
		*077	*085	*092	*096	*099	*101	*101	*099	*097	*094	*090	*086	*082	*077	*071	*066	*060	*054	*046	*040	*032	*024	*016	*006
45		.83	.84	.85	.85	.85	.86	.86	.86	.86	.86	.85	.85	.85	.84	.84	.84	.83	.83	.82	.81	.81	.80	.79	.78
		*118	*126	*132	*136	*139	*140	*140	*139	*136	*134	*130	*125	*122	*117	*113	*107	*102	*096	*089	*082	*075	*067	*059	*049
1000		.86	.87	.87	.88	.88	.88	.88	.88	.88	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.81	.83	.83	.82	.81
		*155	*162	*168	*172	*175	*176	*175	*174	*172	*170	*166	*163	*159	*155	*150	*145	*140	*135	*128	*121	*114	*107	*098	*088
15		.88	.89	.90	.90	.90	.91	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.89	.88	.87	.87	.86	.85	.85	.84
		*188	*195	*200	*204	*206	*207	*207	*206	*204	*202	*199	*195	*192	*188	*184	*179	*175	*170	*163	*157	*150	*142	*133	*123
30		.90	.91	.92	.92	.93	.93	.93	.93	.93	.93	.93	.92	.92	.92	.92	.91	.91	.90	.90	.84	.89	.88	.87	.86
		*216	*223	*228	*232	*234	*235	*235	*234	*232	*230	*227	*224	*221	*217	*214	*210	*205	*200	*194	*188	*181	*173	*164	*154
45		.92	.93	.94	.94	.94	.95	.95	.95	.95	.95	.95	.94	.94	.94	.94	.93	.93	.92	.92	.91	.90	.90	.89	.88
		*241	*247	*252	*255	*257	*258	*258	*257	*256	*254	*252	*249	*246	*243	*239	*235	*231	*227	*220	*214	*207	*199	*190	*180

MAY-AUG 32 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.95	.94	.94	.93	.93	.92	.91	.90	.89
	*261	*267	*271	*275	*277	*278	*278	*277	*276	*274	*272	*270	*267	*264	*261	*257	*253	*249	*242	*235	*224	*221	*212	*201
15	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.95	.91	.93	.93	.92	.91
	*276	*282	*286	*289	*291	*292	*293	*292	*291	*290	*288	*286	*284	*281	*278	*275	*271	*267	*260	*251	*237	*239	*229	*218
30	.96	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.96	.96	.93	.94	.94	.93	.92
	*286	*292	*296	*300	*302	*303	*303	*303	*302	*301	*300	*298	*296	*294	*291	*288	*284	*280	*274	*267	*260	*252	*242	*231
45	.96	.97	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97	.96	.93	.95	.94	.93	.92
	*292	*298	*302	*305	*307	*309	*309	*309	*309	*308	*307	*305	*304	*302	*299	*296	*293	*289	*282	*275	*269	*260	*250	*238
1200	.96	.97	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97	.93	.95	.94	.93	.92
	*294	*299	*303	*306	*309	*310	*311	*311	*311	*311	*310	*309	*307	*305	*303	*300	*297	*293	*287	*280	*273	*263	*253	*241
15	.96	.97	.97	.98	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97	.95	.95	.94	.93	.92
	*290	*296	*300	*303	*305	*307	*308	*309	*309	*309	*308	*307	*306	*305	*303	*300	*297	*293	*286	*280	*272	*262	*251	*238
30	.95	.96	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.99	.98	.98	.98	.97	.97	.96	.93	.95	.94	.93	.92
	*282	*287	*292	*295	*298	*299	*301	*302	*302	*302	*302	*302	*301	*300	*298	*295	*292	*288	*281	*274	*266	*256	*245	*231
45	.94	.95	.96	.96	.96	.97	.97	.97	.97	.98	.98	.98	.98	.97	.97	.97	.97	.96	.96	.95	.94	.93	.92	.91
	*269	*275	*279	*283	*285	*287	*289	*291	*291	*292	*292	*292	*291	*290	*288	*286	*283	*278	*272	*264	*256	*246	*234	*220
1300	.93	.94	.94	.95	.95	.95	.96	.96	.96	.96	.96	.97	.96	.96	.96	.96	.96	.95	.95	.91	.93	.92	.91	.90
	*252	*257	*262	*266	*269	*271	*273	*275	*276	*277	*277	*277	*277	*276	*275	*272	*269	*264	*257	*250	*241	*230	*218	*203
15	.91	.92	.93	.93	.94	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.93	.92	.92	.90	.89	.88
	*230	*236	*240	*244	*248	*250	*253	*255	*257	*258	*258	*259	*259	*258	*256	*254	*251	*246	*239	*231	*221	*210	*197	*182
30	.89	.90	.91	.91	.92	.92	.92	.93	.93	.93	.93	.93	.93	.93	.93	.93	.93	.92	.91	.91	.90	.89	.87	.86
	*204	*209	*214	*219	*222	*225	*229	*231	*233	*234	*235	*236	*236	*235	*234	*232	*228	*223	*216	*207	*198	*186	*172	*156
45	.87	.88	.88	.89	.89	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.91	.91	.90	.89	.89	.88	.86	.85	.84
	*173	*179	*184	*189	*193	*196	*200	*203	*205	*207	*208	*209	*209	*209	*207	*205	*201	*196	*188	*180	*169	*157	*143	*126

MAY-AUG 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.85	.85	.86	.86	.87	.87	.88	.88	.88	.89	.89	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.83	.81
	*138	*144	*150	*155	*159	*163	*167	*170	*173	*175	*177	*178	*178	*178	*177	*174	*170	*165	*157	*148	*137	*124	*109	*092
15	.82	.82	.83	.84	.84	.85	.85	.85	.86	.86	.86	.86	.86	.86	.86	.86	.86	.85	.84	.83	.82	.81	.80	.78
	*099	*106	*112	*117	*122	*126	*131	*134	*137	*140	*142	*143	*144	*142	*142	*139	*135	*130	*121	*111	*100	*086	*071	*053
30	.79	.79	.80	.81	.81	.82	.82	.82	.83	.83	.83	.83	.84	.83	.83	.83	.83	.82	.81	.80	.79	.78	.77	.75
	*057	*064	*070	*075	*081	*086	*091	*095	*098	*101	*103	*105	*105	*105	*104	*101	*097	*091	*081	*071	*059	*045	*029	*010
45	.75	.76	.76	.77	.78	.78	.79	.79	.80	.80	.80	.80	.80	.80	.80	.80	.79	.79	.78	.77	.77	.75	.73	.72
	*010	*017	*024	*030	*036	*041	*047	*051	*055	*058	*061	*063	*063	*063	*062	*059	*054	*048	*038	*026	*015	000	983	964
1500	.71	.72	.73	.73	.74	.75	.75	.76	.76	.76	.77	.77	.77	.77	.77	.76	.76	.75	.75	.74	.72	.71	.70	.68
	960	968	975	982	988	994	*000	*005	*009	*013	*015	*017	*018	*018	*016	*013	*008	*002	991	980	967	951	934	914
15	.67	.68	.69	.70	.70	.71	.72	.72	.72	.73	.73	.73	.73	.73	.73	.73	.72	.72	.71	.70	.69	.67	.66	.64
	907	915	923	930	937	943	950	955	960	964	967	969	970	969	968	964	959	952	941	929	915	899	881	860
30	.63	.64	.65	.66	.66	.67	.68	.68	.68	.69	.69	.69	.69	.69	.69	.69	.68	.68	.67	.66	.65	.63	.62	.60
	851	860	868	875	883	889	897	903	907	912	915	917	918	918	916	912	907	899	888	875	861	844	825	803
45	.59	.60	.60	.61	.62	.63	.63	.64	.64	.65	.65	.65	.65	.65	.65	.65	.64	.64	.63	.61	.60	.59	.57	.55
	792	801	810	818	826	833	841	847	853	857	860	863	864	863	861	858	852	844	832	819	803	786	766	744
1600	.54	.55	.56	.57	.57	.58	.59	.60	.60	.60	.61	.61	.61	.61	.61	.60	.60	.59	.58	.57	.56	.54	.53	.51
	731	740	749	758	766	774	783	789	795	800	804	806	807	806	804	800	794	786	773	759	743	725	704	681
15	.50	.50	.51	.52	.53	.54	.54	.55	.56	.56	.56	.56	.57	.56	.56	.56	.55	.55	.53	.52	.51	.49	.48	.46
	667	677	687	696	705	713	723	730	736	741	744	747	748	747	745	740	734	725	711	697	681	662	640	616
30	.45	.46	.46	.47	.48	.49	.50	.50	.51	.51	.52	.52	.52	.52	.52	.51	.51	.50	.49	.48	.46	.45	.43	.41
	601	612	622	632	642	650	660	668	674	679	683	686	687	686	683	679	672	662	648	633	616	596	574	549
45	.40	.41	.42	.42	.43	.44	.45	.46	.46	.47	.47	.47	.47	.47	.47	.46	.46	.45	.44	.43	.41	.40	.38	.36
	533	545	556	566	576	586	596	604	611	616	620	623	624	623	620	615	607	598	583	567	549	529	506	481

MAY-AUG 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.35	.36	.36	.37	.38	.39	.40	.41	.41	.42	.42	.42	.42	.42	.42	.42	.41	.40	.39	.38	.36	.34	.33	.31
	464	476	488	499	510	520	531	539	546	552	556	559	559	558	555	550	542	531	516	500	481	460	436	410
15	.29	.30	.31	.32	.33	.34	.35	.36	.36	.37	.37	.37	.37	.37	.37	.36	.36	.35	.34	.32	.31	.29	.27	.25
	394	407	419	431	442	453	464	473	480	486	490	493	494	493	489	483	475	464	447	431	411	389	365	338
30	.24	.25	.26	.27	.28	.29	.30	.31	.31	.32	.32	.32	.32	.32	.32	.31	.31	.30	.28	.27	.26	.24	.22	.20
	323	336	349	362	374	385	397	406	413	420	424	427	427	426	422	416	407	395	378	361	341	318	293	266
45	.19	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.27	.27	.27	.27	.26	.26	.25	.23	.22	.20	.18	.16	.14
	251	266	279	292	305	316	329	338	346	352	357	360	360	358	354	347	338	326	308	290	269	246	220	193
1800	.13	.15	.16	.17	.18	.19	.20	.20	.21	.22	.22	.22	.22	.22	.22	.21	.20	.19	.18	.16	.15	.13	.11	.09
	180	194	209	222	236	248	261	270	279	285	290	292	292	290	286	279	269	256	238	219	198	174	147	119
15	.08	.09	.10	.11	.13	.13	.15	.15	.16	.16	.17	.17	.17	.17	.16	.16	.15	.14	.13	.11	.09	.08	.06	.03
	108	123	138	153	166	179	193	203	211	218	222	225	225	222	218	210	200	187	167	148	126	101	074	045
30	.03	.04	.05	.06	.07	.08	.09	.10	.11	.11	.12	.12	.12	.12	.11	.11	.10	.09	.07	.05	.04	.02	.00	.00
	037	053	068	083	098	111	125	135	144	150	155	157	157	155	149	141	131	117	097	077	054	029	002	000
45	.00	.00	.00	.01	.02	.03	.04	.05	.06	.06	.07	.07	.07	.07	.06	.06	.05	.04	.02	.01	.00	.00	.00	.00
	000	000	000	015	029	043	058	068	077	084	088	090	090	087	082	073	062	048	027	005	000	000	000	000
1900	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	002	011	018	022	024	024	021	015	006	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	021	007	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.07	.06	.05	.04	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	096	082	068	053	038	022	005	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.13	.12	.11	.09	.08	.07	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	170	156	143	128	113	098	081	064	045	026	006	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.15	.14	.13	.11	.10	.09	.07	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	244	231	217	203	188	173	156	138	120	100	080	059	032	010	000	000	000	000	000	000	000	000	000	000
45	.24	.23	.22	.20	.19	.18	.17	.16	.14	.13	.11	.10	.08	.06	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00
	317	304	291	277	262	247	230	212	194	174	153	132	105	082	059	037	015	000	000	000	000	000	000	000
0700	.29	.28	.27	.26	.25	.23	.22	.21	.19	.18	.16	.15	.13	.11	.09	.08	.06	.05	.03	.02	.01	.00	.00	.00
	389	377	364	350	335	320	303	285	266	246	225	203	176	153	130	107	085	064	045	027	011	000	000	000
15	.34	.33	.32	.31	.30	.29	.27	.26	.25	.23	.21	.20	.18	.16	.14	.13	.11	.09	.08	.07	.06	.05	.04	.03
	460	448	435	421	407	391	374	356	337	317	296	273	246	223	199	176	154	133	113	095	079	066	056	048
30	.39	.38	.37	.36	.35	.34	.32	.31	.30	.28	.26	.25	.23	.21	.19	.17	.16	.14	.13	.12	.10	.09	.09	.08
	529	517	505	491	477	461	444	426	406	386	364	341	314	290	266	243	221	200	180	162	146	133	123	116
45	.44	.43	.42	.41	.40	.39	.37	.36	.34	.33	.31	.29	.27	.25	.24	.22	.20	.19	.17	.16	.15	.14	.13	.13
	597	585	572	559	544	528	511	493	473	452	430	407	379	355	332	308	286	264	245	227	211	199	189	182

SEP-DEC 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800		.49	.48	.47	.46	.45	.43	.42	.41	.39	.37	.36	.34	.32	.30	.28	.26	.25	.23	.22	.21	.19	.19	.18	.17
		662	650	638	624	610	594	576	558	538	516	494	471	442	418	394	371	348	327	307	290	274	262	252	246
15		.54	.53	.52	.51	.49	.48	.47	.45	.44	.42	.40	.38	.36	.34	.32	.31	.29	.28	.26	.25	.24	.23	.22	.22
		725	713	701	687	672	656	638	619	599	578	555	532	503	476	454	431	408	387	367	350	335	323	313	308
30		.58	.57	.56	.55	.54	.52	.51	.49	.48	.46	.44	.42	.40	.38	.37	.35	.33	.32	.30	.29	.28	.27	.26	.26
		785	773	761	747	732	716	698	678	658	636	613	589	560	536	511	488	465	444	424	407	393	381	372	367
45		.63	.61	.60	.59	.58	.57	.55	.53	.52	.50	.48	.46	.44	.42	.40	.39	.37	.35	.34	.33	.32	.31	.30	.30
		842	831	818	804	789	772	754	734	713	691	668	644	614	590	565	541	519	498	479	462	447	436	428	423
0900		.67	.65	.64	.63	.62	.60	.59	.57	.56	.54	.52	.50	.48	.46	.44	.42	.41	.39	.38	.36	.35	.35	.34	.34
		896	884	872	857	842	825	806	786	765	743	719	695	665	640	616	592	569	548	529	513	499	488	480	476
15		.70	.69	.68	.67	.65	.64	.62	.61	.59	.57	.55	.53	.51	.49	.47	.46	.44	.42	.41	.40	.39	.38	.37	.37
		947	935	922	907	891	874	855	835	813	790	767	742	712	687	663	639	616	596	577	561	547	537	530	526
30		.74	.73	.71	.70	.69	.67	.66	.64	.62	.60	.58	.57	.54	.52	.50	.49	.47	.45	.44	.43	.42	.41	.41	.40
		993	981	968	953	937	919	900	880	858	834	810	785	755	730	706	682	660	639	621	605	592	582	575	572
45		.77	.76	.75	.73	.72	.70	.69	.67	.65	.63	.61	.59	.57	.55	.53	.51	.50	.48	.47	.46	.45	.44	.44	.43
		*036	*024	*010	995	979	961	941	920	898	874	850	825	794	769	745	721	699	679	661	645	633	623	617	615
1000		.80	.79	.77	.76	.75	.73	.71	.70	.68	.66	.64	.62	.60	.58	.56	.54	.52	.51	.49	.48	.47	.47	.46	.46
		*075	*063	*049	*033	*016	998	978	956	933	910	885	860	829	804	779	756	734	714	696	681	669	661	656	654
15		.82	.81	.80	.79	.77	.75	.74	.72	.70	.68	.66	.64	.62	.60	.58	.56	.54	.53	.52	.51	.50	.49	.49	.49
		*110	*097	*083	*067	*049	*030	*010	986	965	941	916	890	859	834	810	787	765	745	728	714	702	694	689	688
30		.85	.83	.82	.81	.79	.77	.76	.74	.72	.70	.68	.66	.64	.62	.60	.58	.56	.55	.54	.53	.52	.51	.51	.51
		*140	*127	*112	*096	*078	*059	*038	*015	992	967	942	916	885	860	836	813	791	772	755	741	731	723	719	719
45		.86	.85	.84	.82	.81	.79	.77	.76	.74	.72	.70	.67	.65	.63	.61	.60	.58	.56	.55	.54	.53	.53	.53	.53
		*166	*152	*137	*120	*102	*082	*061	*038	*014	989	963	938	907	881	857	834	813	795	778	765	755	748	745	745

SEP-DEC 32 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.88	.87	.85	.84	.82	.81	.79	.77	.75	.73	.71	.69	.66	.64	.62	.61	.59	.58	.57	.56	.55	.54	.54	.54
	*187	*173	*157	*140	*121	*101	*079	*056	*031	*006	980	954	925	898	874	851	831	812	797	781	774	768	766	767
15	.89	.88	.87	.85	.83	.82	.80	.78	.76	.74	.72	.70	.67	.65	.63	.62	.60	.59	.58	.57	.56	.55	.55	.55
	*203	*189	*173	*155	*136	*115	*092	*068	*044	*018	992	966	935	910	886	864	843	825	810	795	789	784	782	784
30	.90	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.59	.58	.57	.57	.56	.56	.56
	*215	*200	*183	*165	*145	*124	*101	*076	*051	*025	999	973	942	917	893	871	851	834	819	806	800	795	794	796
45	.91	.89	.88	.86	.84	.83	.81	.79	.76	.74	.72	.70	.68	.66	.64	.62	.61	.60	.58	.58	.57	.57	.57	.57
	*222	*206	*189	*170	*150	*127	*104	*079	*054	*028	*001	975	944	919	896	874	855	838	824	813	805	801	801	804
1200	.91	.89	.88	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.59	.58	.58	.57	.57	.57	.57
	*224	*208	*190	*170	*149	*127	*103	*077	*051	*025	998	972	941	916	893	872	853	837	823	813	806	803	803	807
15	.91	.89	.88	.86	.84	.82	.80	.78	.76	.74	.71	.69	.67	.65	.63	.62	.60	.59	.58	.57	.57	.57	.57	.57
	*221	*204	*186	*166	*144	*121	*096	*070	*044	*017	991	964	933	909	886	865	847	831	818	808	802	800	801	806
30	.90	.89	.87	.85	.83	.81	.79	.77	.75	.73	.71	.68	.66	.64	.62	.61	.59	.58	.57	.57	.56	.56	.56	.57
	*213	*196	*177	*156	*134	*110	*085	*059	*032	*005	978	951	921	897	874	854	836	820	808	799	794	792	794	799
45	.89	.88	.86	.84	.82	.80	.78	.76	.74	.71	.69	.67	.65	.63	.61	.60	.58	.57	.56	.56	.55	.55	.55	.56
	*201	*183	*163	*142	*118	*094	*068	*042	*015	988	961	934	903	879	857	837	820	805	794	785	781	780	782	788
1300	.88	.86	.84	.83	.81	.79	.76	.74	.72	.70	.68	.66	.63	.61	.60	.58	.57	.56	.55	.54	.54	.54	.54	.55
	*183	*165	*144	*122	*098	*073	*047	*020	993	966	938	912	881	858	836	816	799	785	774	767	763	763	766	773
15	.86	.85	.83	.81	.79	.77	.75	.72	.70	.68	.66	.64	.61	.60	.58	.56	.55	.54	.53	.53	.52	.52	.53	.53
	*161	*142	*121	*098	*074	*048	*022	994	966	939	911	885	856	831	810	791	774	761	751	744	741	741	745	752
30	.84	.83	.81	.79	.77	.75	.72	.70	.68	.66	.64	.61	.59	.57	.56	.54	.53	.52	.51	.51	.51	.51	.51	.51
	*135	*115	*093	*069	*044	*018	991	963	935	907	880	854	824	800	779	761	745	732	723	716	714	715	720	728
45	.82	.80	.78	.76	.74	.72	.70	.68	.65	.63	.61	.59	.57	.55	.53	.52	.51	.50	.49	.49	.48	.48	.49	.49
	*104	*083	*061	*036	*011	984	956	928	900	872	844	818	788	765	745	727	711	699	690	685	683	685	690	699

SEP-DEC 32 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE SEP 5	SEP 10	SEP 15	SEP 20	SEP 25	SEP 30	OCT 5	OCT 10	OCT 15	OCT 20	OCT 25	OCT 30	NOV 5	NOV 10	NOV 15	NOV 20	NOV 25	NOV 30	DEC 5	DEC 10	DEC 15	DEC 20	DEC 25	DEC 30
1400	.79	.77	.76	.74	.71	.69	.67	.65	.62	.60	.58	.56	.54	.52	.50	.49	.48	.47	.46	.45	.45	.46	.46	.47
	*068	*047	*024	999	973	945	917	888	860	832	804	778	748	726	706	688	673	662	654	649	646	650	656	665
15	.76	.75	.73	.70	.68	.66	.64	.61	.59	.57	.55	.53	.51	.49	.47	.46	.45	.44	.44	.43	.43	.43	.44	.44
	*029	*007	983	957	930	902	874	845	816	788	760	734	705	682	663	646	632	621	613	609	608	611	618	628
30	.73	.71	.69	.67	.65	.63	.60	.58	.56	.54	.51	.49	.47	.45	.44	.43	.42	.41	.40	.40	.40	.40	.41	.41
	985	962	938	911	884	855	826	797	768	739	712	686	657	635	616	599	586	575	569	565	565	569	576	586
45	.70	.68	.66	.63	.61	.59	.57	.54	.52	.50	.48	.46	.43	.42	.40	.39	.38	.37	.37	.37	.37	.37	.38	.38
	938	914	889	862	834	805	775	746	716	688	660	634	606	584	565	549	536	527	520	518	518	523	530	541
1500	.66	.64	.62	.60	.57	.55	.53	.50	.48	.46	.44	.42	.40	.38	.37	.35	.34	.34	.33	.33	.33	.33	.34	.35
	887	862	836	809	780	750	720	691	661	632	605	579	551	530	512	496	484	475	469	467	468	473	481	492
15	.62	.60	.58	.55	.53	.51	.48	.46	.44	.42	.39	.38	.35	.34	.32	.31	.30	.30	.29	.29	.29	.30	.30	.31
	832	807	780	752	723	693	662	632	603	574	547	521	493	472	454	440	428	419	414	413	414	420	428	440
30	.57	.55	.53	.51	.49	.46	.44	.42	.39	.37	.35	.33	.31	.30	.28	.27	.26	.26	.25	.25	.25	.26	.26	.27
	775	749	721	692	662	632	601	571	541	512	485	460	432	412	394	380	369	361	356	355	358	364	373	385
45	.53	.51	.49	.46	.44	.42	.39	.37	.35	.32	.30	.29	.26	.25	.24	.23	.22	.21	.21	.21	.21	.22	.22	.23
	714	687	659	630	599	568	537	507	477	448	421	396	369	349	332	318	307	300	296	296	298	305	314	327
1600	.48	.46	.44	.42	.39	.37	.34	.32	.30	.28	.26	.24	.22	.20	.19	.18	.17	.17	.17	.17	.17	.17	.18	.19
	651	623	595	564	534	502	471	440	410	381	354	329	303	283	267	253	243	236	233	233	236	243	253	266
15	.43	.41	.39	.37	.34	.32	.29	.27	.25	.23	.21	.19	.17	.15	.14	.13	.13	.12	.12	.12	.12	.13	.13	.14
	585	557	528	497	466	434	402	371	341	312	286	261	234	215	199	187	177	171	168	168	172	179	189	202
30	.38	.36	.34	.31	.29	.27	.24	.22	.20	.18	.16	.14	.12	.10	.09	.08	.08	.07	.07	.07	.08	.08	.09	.10
	517	489	458	427	396	363	332	300	270	242	215	190	164	146	130	118	109	103	101	102	106	113	124	137
45	.33	.31	.29	.26	.24	.21	.19	.17	.14	.12	.10	.09	.07	.05	.04	.03	.03	.02	.02	.02	.03	.03	.04	.05
	448	418	388	356	324	291	259	228	198	169	143	119	093	075	060	048	039	034	032	033	038	046	056	070

SEP-DEC 32 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.26	.23	.21	.18	.16	.14	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	376	347	315	283	251	218	186	154	124	096	069	045	028	002	000	000	000	000	000	000	000	000	000	001
15	.23	.20	.18	.15	.13	.11	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	304	274	242	209	176	143	111	079	049	021	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.07	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	231	200	167	135	101	068	036	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	157	125	093	059	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	083	051	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 32 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.01	.03								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	012	035								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.01	.03	.05	.06	.08								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	006	035	062	087	109								
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.01		.04	.06	.08	.10	.12	.14								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	016		053	083	111	137	161	183								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.02	.05	.07		.10	.12	.14	.16	.18	.19								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	030	062	094		130	159	187	213	236	257								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.01	.03	.06	.08	.10	.13		.15	.17	.19	.21	.23	.25								
	000	000	000	000	000	000	000	000	000	000	000	000		016	046	077	108	140	171		207	235	263	288	310	331								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04		.07	.09	.11	.14	.16	.18		.21	.23	.25	.27	.28	.30								
	000	000	000	000	000	000	000	000	000	000	024	049		094	124	155	186	217	248		283	311	338	362	384	404								
0700	.00	.00	.00	.00	.00	.01	.01	.03	.04	.06	.07	.09		.12	.15	.17	.19	.21	.24		.26	.28	.30	.32	.34	.35								
	000	000	000	000	000	008	020	037	056	077	100	126		171	201	232	263	294	324		359	385	412	435	457	476								
15	.05	.05	.05	.05	.05	.06	.07	.08	.09	.11	.13	.15		.18	.20	.22	.25	.27	.29		.32	.34	.36	.37	.39	.41								
	069	066	065	067	073	081	093	112	131	152	176	202		247	277	308	338	369	399		433	460	485	507	528	546								
30	.10	.10	.10	.10	.10	.11	.12	.13	.15	.16	.18	.20		.23	.25	.28	.30	.32	.34		.37	.39	.41	.43	.44	.46								
	139	136	135	138	144	154	166	185	204	226	250	277		322	352	382	413	443	472		505	532	556	578	598	615								
45	.15	.14	.14	.15	.15	.16	.17	.18	.20	.21	.23	.25		.28	.31	.33	.35	.37	.40		.42	.44	.46	.48	.49	.51								
	206	204	204	207	214	224	237	257	276	299	323	350		395	425	455	485	515	543		576	602	625	646	666	682								

JAN-APR 30 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.19	.19	.19	.19	.20	.21	.22	.23	.25	.26	.28	.30	.34	.36	.38	.40	.42	.45	.47	.49	.51	.53	.54	.55
	272	270	271	275	282	292	306	326	347	369	394	421	466	493	525	555	584	613	645	669	692	713	731	747
15	.24	.24	.24	.24	.25	.25	.26	.28	.30	.31	.33	.35	.39	.41	.43	.45	.47	.50	.52	.54	.56	.57	.59	.60
	335	334	335	339	347	359	373	394	414	437	462	489	535	564	594	623	652	679	711	735	757	777	794	809
30	.28	.28	.28	.28	.29	.30	.31	.33	.34	.36	.38	.40	.43	.45	.48	.50	.52	.54	.57	.58	.60	.62	.63	.64
	396	395	397	402	410	422	437	459	480	503	528	555	601	630	659	688	716	743	774	797	819	838	855	869
45	.32	.32	.32	.33	.33	.34	.35	.37	.39	.40	.42	.44	.48	.50	.52	.54	.57	.59	.61	.63	.65	.66	.67	.69
	454	453	456	461	471	483	499	521	542	566	591	618	664	693	722	750	778	804	834	857	877	896	912	926
0900	.36	.36	.36	.37	.37	.38	.40	.41	.43	.45	.47	.49	.52	.54	.56	.59	.61	.63	.65	.67	.69	.70	.71	.73
	508	508	511	518	528	541	557	580	602	626	651	678	724	753	781	809	836	862	891	913	933	951	966	979
15	.40	.40	.40	.40	.41	.42	.43	.45	.47	.49	.51	.53	.56	.58	.61	.63	.65	.67	.69	.71	.72	.74	.75	.76
	559	560	564	571	582	595	612	636	658	682	708	735	780	809	837	865	891	917	945	965	985	*002	*017	*029
30	.43	.43	.43	.44	.45	.46	.47	.49	.51	.52	.54	.56	.60	.62	.64	.66	.68	.70	.73	.74	.76	.77	.79	.80
	607	608	613	621	632	646	663	688	710	735	761	788	833	861	889	916	942	967	994	*015	*033	*049	*063	*075
45	.46	.46	.47	.47	.48	.49	.50	.52	.54	.56	.58	.60	.63	.66	.68	.70	.72	.74	.76	.78	.79	.81	.82	.83
	651	653	658	667	678	693	711	736	759	784	810	837	882	910	937	964	990	*014	*040	*060	*078	*093	*106	*117
1000	.49	.49	.49	.50	.51	.52	.54	.55	.57	.59	.61	.63	.67	.69	.71	.73	.75	.77	.79	.81	.82	.84	.85	.86
	691	693	699	708	721	737	755	780	804	829	855	882	927	954	982	*008	*033	*056	*082	*101	*118	*133	*145	*156
15	.51	.52	.52	.53	.54	.55	.56	.58	.60	.62	.64	.66	.70	.72	.74	.76	.78	.80	.82	.83	.85	.86	.87	.88
	727	730	736	746	759	776	795	820	844	869	896	923	967	995	*021	*047	*071	*094	*119	*137	*154	*168	*180	*190
30	.54	.54	.54	.55	.56	.57	.59	.61	.63	.65	.67	.69	.72	.74	.76	.78	.80	.82	.84	.86	.87	.88	.89	.90
	758	762	769	780	794	810	830	856	880	906	932	960	*003	*030	*057	*082	*105	*128	*152	*169	*185	*199	*210	*219
45	.56	.56	.56	.57	.58	.60	.61	.63	.65	.67	.69	.71	.74	.77	.79	.81	.82	.84	.86	.88	.89	.90	.91	.92
	785	789	797	809	823	841	861	888	912	938	964	991	*035	*061	*087	*112	*135	*156	*180	*197	*212	*225	*236	*245

JAN-APR 30 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1		5		10		15		20		25		30	5		10		15		20		25		30	5		10		15		20		25		30	
1100	.57		.57		.58		.59		.60		.61		.63	.65		.67		.69		.71		.73			.76		.78		.80		.82		.84		.86	
	808		812		821		833		848		866		887	914		939		965		991		*018			*061		*085		*113		*137		*160		*181	
15	.58		.59		.59		.60		.62		.63		.64	.67		.68		.70		.72		.75			.78		.80		.82		.84		.86		.87	
	825		831		840		853		869		887		908	936		961		987		*014		*040			*083		*109		*134		*158		*180		*200	
30	.59		.60		.60		.61		.63		.64		.66	.68		.70		.72		.74		.76			.79		.81		.83		.85		.87		.88	
	839		844		855		868		885		904		925	953		978		*004		*031		*058			*100		*126		*150		*173		*194		*214	
45	.60		.60		.61		.62		.63		.65		.66	.69		.71		.73		.75		.77			.80		.82		.84		.86		.88		.89	
	847		853		864		878		895		915		937	965		990		*017		*043		*070			*112		*137		*161		*183		*204		*223	
1200	.60		.61		.61		.63		.64		.65		.67	.69		.71		.73		.75		.77			.80		.82		.84		.86		.88		.89	
	850		857		869		884		901		921		944	972		998		*024		*051		*077			*118		*143		*167		*189		*209		*227	
15	.60		.61		.61		.63		.64		.65		.67	.69		.71		.73		.75		.77			.81		.82		.84		.86		.88		.89	
	849		857		869		884		902		923		945	975		*000		*026		*053		*079			*120		*144		*167		*189		*209		*227	
30	.60		.60		.61		.62		.64		.65		.67	.69		.71		.73		.75		.77			.80		.82		.84		.86		.87		.89	
	843		851		864		880		898		919		942	972		997		*024		*050		*076			*116		*140		*163		*184		*203		*221	
45	.59		.59		.60		.62		.63		.65		.66	.68		.70		.72		.74		.76			.80		.82		.83		.85		.87		.88	
	832		841		854		871		890		911		934	964		989		*016		*042		*068			*108		*131		*153		*174		*193		*209	
1300	.58		.58		.59		.61		.62		.64		.65	.68		.70		.72		.74		.76			.79		.81		.82		.84		.86		.87	
	816		825		840		857		876		898		921	951		977		*003		*029		*055			*094		*117		*139		*159		*177		*193	
15	.56		.57		.58		.59		.61		.62		.64	.66		.68		.70		.72		.74			.77		.79		.81		.83		.84		.85	
	796		805		820		838		858		880		903	933		959		985		*011		*036			*075		*098		*119		*139		*156		*172	
30	.55		.55		.56		.58		.59		.61		.62	.65		.67		.69		.71		.73			.76		.77		.79		.81		.82		.84	
	771		781		796		814		834		857		881	911		936		962		988		*013			*051		*074		*094		*114		*131		*147	
45	.52		.53		.54		.56		.57		.59		.61	.63		.65		.67		.69		.71			.74		.75		.77		.79		.80		.81	
	741		752		768		786		807		829		853	883		909		935		960		985			*023		*045		*065		*084		*101		*116	

JAN-APR 30 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																							
	JAN							FEB						MAR							APR																				
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30														
1400	.50	.51	.52	.53	.55	.56	.58	.61	.62	.64	.66	.68		.71	.73	.75	.76	.77	.79		.80	.81	.82	.83	.84	.85														
	708	719	735	753	774	797	821	851	877	903	928	952		990	011	031	049	066	081		097	109	118	127	135	141														
15	.47	.48	.49	.51	.52	.54	.56	.58	.60	.62	.64	.66		.68	.70	.72	.73	.75	.76		.77	.78	.79	.80	.81	.82														
	670	681	697	717	738	761	785	815	840	866	891	915		952	973	992	010	027	041		057	068	078	087	095	101														
30	.44	.45	.46	.48	.49	.51	.53	.55	.57	.59	.61	.63		.65	.67	.69	.70	.71	.73		.74	.75	.76	.77	.78	.78														
	627	639	656	675	697	720	744	774	799	825	850	873		902	930	949	967	983	997		013	024	034	043	050	057														
45	.41	.42	.43	.45	.46	.48	.50	.52	.54	.56	.57	.59		.62	.64	.65	.67	.68	.69		.71	.72	.72	.73	.74	.75														
	581	593	611	630	652	675	699	729	754	779	804	828		863	883	902	920	935	949		964	975	986	995	003	010														
1500	.38	.38	.40	.41	.43	.44	.46	.48	.50	.52	.54	.56		.58	.60	.62	.63	.64	.65		.67	.68	.69	.70	.70	.71														
	532	544	562	581	603	626	650	680	705	730	754	778		813	833	851	868	883	897		912	924	934	943	951	959														
15	.34	.35	.36	.37	.39	.41	.42	.45	.46	.48	.50	.52		.55	.56	.58	.59	.60	.61		.63	.64	.65	.65	.66	.67														
	479	491	509	529	551	574	598	628	652	677	701	724		758	778	796	813	828	842		857	868	878	887	896	904														
30	.30	.31	.32	.33	.35	.37	.38	.41	.42	.44	.46	.48		.50	.52	.53	.55	.56	.57		.58	.59	.60	.61	.62	.63														
	422	435	453	473	495	518	542	571	596	620	644	666		700	720	738	754	769	783		798	809	819	829	838	846														
45	.26	.27	.28	.29	.31	.33	.34	.36	.38	.40	.42	.43		.46	.47	.49	.50	.51	.53		.54	.55	.56	.57	.57	.58														
	363	376	394	414	436	459	483	512	536	560	583	606		639	658	676	692	707	721		736	747	758	767	777	785														
1600	.21	.22	.24	.25	.27	.28	.30	.32	.34	.35	.37	.39		.41	.43	.44	.45	.47	.48		.49	.50	.51	.52	.53	.54														
	301	314	332	352	374	397	421	449	473	497	520	542		575	594	611	627	642	656		671	682	693	703	713	722														
15	.17	.18	.19	.20	.22	.24	.25	.27	.29	.31	.32	.34		.37	.38	.39	.41	.42	.43		.44	.45	.46	.47	.48	.49														
	236	249	268	288	310	332	356	384	408	431	454	475		508	526	543	559	574	588		603	615	626	636	646	656														
30	.12	.13	.14	.16	.17	.19	.20	.23	.24	.26	.28	.29		.32	.33	.34	.35	.37	.38		.39	.40	.41	.42	.43	.44														
	170	183	201	221	243	265	288	316	340	363	385	406		438	456	473	489	504	518		533	545	557	568	578	588														
45	.07	.08	.09	.11	.12	.14	.16	.18	.19	.21	.22	.24		.26	.28	.29	.30	.31	.33		.34	.35	.36	.37	.38	.38														
	101	114	132	152	174	196	219	247	270	292	314	335		366	384	401	417	432	446		461	474	485	497	508	519														

JAN-APR 30 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25
1700	.02	.03	.04	.06	.07	.09	.10	.12	.14	.16	.17	.19
	031	044	062	082	103	125	147	175	197	219	241	262
15	.00	.00	.00	.01	.02	.04	.05	.07	.09	.10	.12	.13
	000	000	000	010	031	052	074	101	123	145	166	187
30	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.07	.08
	000	000	000	000	000	000	000	027	048	070	091	111
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02
	000	000	000	000	000	000	000	000	000	000	014	033
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000

MST	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1700	.21	.22	.24	.25	.26	.27	.28	.29	.30	.31	.32	.33
	293	310	327	343	358	372	388	401	413	425	436	448
15	.16	.17	.18	.19	.21	.22	.23	.24	.25	.26	.27	.28
	217	235	252	268	283	297	313	326	339	351	363	375
30	.10	.11	.13	.14	.15	.16	.17	.18	.19	.20	.21	.22
	141	158	175	191	206	220	237	250	264	277	289	302
45	.05	.06	.07	.08	.09	.10	.12	.13	.14	.15	.16	.17
	063	081	097	113	129	143	160	174	188	201	215	228
1800	.00	.00	.01	.03	.04	.05	.06	.07	.08	.09	.10	.11
	000	002	019	035	051	066	083	098	112	126	140	154
15	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04	.05	.06
	000	000	000	000	000	000	006	021	036	051	066	080
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	007
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 30 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	cos Z	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	XO	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	cos Z	.00	.00	.01	.02	.03	.04	.04	.04	.04	.04	.04	.03	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	XO	000	002	018	031	041	049	054	056	055	052	047	040	032	022	010	000	000	000	000	000	000	000	000	000
30	cos Z	.04	.06	.07	.08	.08	.09	.09	.09	.09	.09	.09	.08	.08	.07	.06	.05	.04	.03	.02	.01	.00	.00	.00	.00
	XO	056	074	089	102	111	118	123	124	123	120	115	108	100	090	079	067	054	041	024	011	000	000	000	000
45	cos Z	.10	.11	.12	.13	.14	.14	.15	.15	.15	.14	.14	.13	.13	.12	.11	.10	.09	.08	.07	.06	.05	.04	.03	.02
	XO	129	146	161	173	182	188	192	193	192	189	184	177	168	159	148	136	124	112	096	083	070	056	043	030
0600	cos Z	.15	.16	.17	.18	.19	.19	.20	.20	.20	.19	.19	.19	.18	.17	.16	.16	.15	.14	.13	.12	.11	.10	.09	.08
	XO	202	219	233	244	252	258	262	263	261	258	252	246	237	228	218	207	195	183	168	155	143	130	118	106
15	cos Z	.21	.22	.23	.24	.24	.25	.25	.25	.25	.25	.24	.24	.23	.23	.22	.21	.20	.19	.18	.17	.16	.15	.14	.13
	XO	276	291	305	315	323	328	332	332	330	327	321	315	306	297	287	277	266	254	240	228	216	204	193	181
30	cos Z	.26	.27	.28	.29	.30	.30	.30	.30	.30	.30	.29	.29	.28	.28	.27	.26	.25	.25	.23	.23	.22	.21	.20	.19
	XO	348	364	376	386	393	398	401	401	399	395	390	383	375	367	357	347	336	325	312	300	289	278	267	256
45	cos Z	.31	.32	.33	.34	.35	.35	.35	.35	.35	.35	.35	.34	.34	.33	.32	.31	.31	.30	.29	.28	.27	.26	.25	.25
	XO	421	435	447	456	463	467	469	469	467	463	458	451	444	435	426	416	406	396	383	372	362	351	341	330
0700	cos Z	.37	.38	.39	.39	.40	.40	.40	.40	.40	.40	.40	.39	.39	.38	.37	.37	.36	.35	.34	.33	.33	.32	.31	.30
	XO	492	505	517	525	531	535	537	537	534	530	525	519	511	503	494	485	476	466	454	444	434	423	413	403
15	cos Z	.42	.43	.44	.44	.45	.45	.45	.45	.45	.45	.45	.44	.44	.43	.42	.42	.41	.40	.39	.39	.38	.37	.36	.35
	XO	562	575	585	593	599	602	604	603	600	596	591	585	578	570	562	553	544	534	523	514	504	495	485	475
30	cos Z	.47	.48	.49	.49	.50	.50	.50	.50	.50	.50	.50	.49	.49	.48	.47	.47	.46	.45	.44	.44	.43	.42	.41	.41
	XO	630	642	652	659	664	668	669	668	665	661	656	650	643	636	628	619	611	602	591	582	573	564	555	546
45	cos Z	.52	.53	.54	.54	.55	.55	.55	.55	.55	.55	.54	.54	.53	.53	.52	.52	.51	.50	.49	.49	.48	.47	.47	.46
	XO	696	708	717	724	728	731	732	731	728	724	719	713	707	699	692	684	676	668	658	649	641	632	623	614

MAY-AUG 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.57	.57	.58	.59	.59	.60	.60	.60	.60	.59	.59	.59	.59	.59	.57	.56	.56	.55	.54	.53	.53	.52	.51	.51
	760	771	780	786	790	793	793	792	789	785	780	775	768	761	754	747	739	731	722	714	706	698	689	681
15	.61	.62	.63	.63	.64	.64	.64	.64	.64	.64	.63	.63	.63	.62	.62	.61	.60	.60	.59	.59	.58	.57	.56	.55
	822	832	840	846	850	852	852	850	848	844	839	834	828	821	814	807	800	793	784	777	769	761	753	745
30	.66	.66	.67	.68	.68	.68	.68	.68	.68	.68	.68	.67	.67	.66	.66	.65	.65	.64	.63	.63	.62	.61	.61	.60
	881	891	898	903	907	908	908	906	904	900	895	890	885	879	872	866	859	852	844	837	830	822	814	806
45	.70	.71	.71	.72	.72	.72	.72	.72	.72	.72	.72	.71	.71	.71	.70	.70	.69	.68	.68	.67	.66	.66	.65	.64
	937	946	953	958	961	962	962	960	957	953	949	944	939	933	927	921	915	909	901	893	887	880	872	864
0900	.74	.74	.75	.76	.76	.76	.76	.76	.76	.76	.76	.75	.75	.74	.74	.73	.73	.72	.72	.71	.71	.70	.69	.68
	990	998	*004	*009	*012	*013	*012	*010	*008	*004	*000	995	990	985	979	974	968	962	955	948	942	935	927	919
15	.77	.78	.79	.79	.79	.80	.80	.80	.80	.79	.79	.79	.78	.78	.78	.77	.77	.76	.76	.75	.74	.74	.73	.72
	*039	*047	*053	*057	*059	*060	*059	*057	*055	*051	*048	*043	*038	*033	*028	*023	*018	*012	*005	999	993	986	979	971
30	.81	.81	.82	.82	.83	.83	.83	.83	.83	.83	.82	.82	.82	.81	.81	.81	.80	.80	.79	.79	.78	.77	.77	.76
	*085	*092	*097	*101	*103	*104	*103	*101	*099	*095	*092	*088	*083	*079	*074	*069	*064	*059	*052	*047	*041	*034	*027	*018
45	.84	.84	.85	.85	.86	.86	.86	.86	.86	.86	.86	.85	.85	.85	.84	.84	.83	.83	.82	.82	.81	.81	.80	.79
	*126	*133	*138	*142	*144	*144	*143	*141	*139	*136	*132	*129	*125	*120	*116	*112	*107	*102	*096	*090	*084	*078	*071	*062
1000	.87	.87	.88	.88	.88	.89	.89	.89	.89	.89	.88	.88	.88	.88	.87	.87	.86	.86	.85	.85	.84	.84	.83	.82
	*164	*171	*175	*178	*180	*180	*179	*178	*175	*173	*169	*166	*162	*158	*154	*150	*146	*141	*136	*130	*124	*118	*111	*102
15	.89	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.89	.88	.88	.87	.86	.86	.85
	*198	*204	*208	*211	*212	*213	*212	*210	*208	*205	*203	*199	*196	*192	*189	*185	*181	*177	*171	*165	*160	*154	*146	*138
30	.91	.92	.92	.93	.93	.93	.93	.93	.93	.93	.93	.93	.93	.92	.92	.92	.91	.91	.90	.90	.89	.89	.88	.87
	*227	*233	*237	*239	*241	*241	*240	*239	*237	*234	*232	*229	*226	*223	*219	*216	*212	*208	*203	*198	*192	*185	*178	*169
45	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.94	.93	.93	.92	.92	.91	.91	.90	.89
	*252	*257	*261	*263	*265	*265	*264	*263	*261	*259	*257	*254	*251	*248	*245	*242	*239	*235	*230	*225	*219	*212	*205	*196

MAY-AUG 30 N TABLE 8-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.95	.95	.96	.96	.96	.96	.97	.97	.97	.97	.96	.96	.96	.96	.96	.95	.95	.95	.94	.94	.93	.92	.92	.91
	*272	*277	*281	*283	*284	*284	*284	*283	*281	*279	*277	*275	*273	*270	*267	*264	*261	*258	*253	*248	*242	*235	*227	*218
15	.96	.96	.97	.97	.97	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.97	.96	.96	.96	.95	.94	.94	.93	.92
	*288	*292	*296	*298	*299	*300	*299	*298	*297	*295	*294	*292	*290	*287	*285	*282	*279	*276	*271	*265	*260	*253	*245	*235
30	.97	.97	.98	.98	.98	.98	.99	.99	.99	.99	.99	.99	.98	.98	.98	.98	.97	.97	.97	.96	.95	.95	.94	.93
	*298	*303	*306	*308	*310	*310	*310	*309	*308	*307	*305	*304	*302	*300	*298	*296	*293	*289	*284	*279	*273	*266	*258	*248
45	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97	.96	.95	.94	.93
	*304	*309	*312	*314	*316	*316	*316	*316	*315	*314	*313	*312	*310	*309	*307	*304	*302	*298	*293	*288	*282	*275	*266	*255
1200	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.96	.96	.95	.94
	*306	*310	*313	*315	*317	*318	*318	*318	*317	*317	*316	*315	*314	*312	*311	*309	*306	*303	*298	*292	*286	*278	*269	*258
15	.97	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.96	.95	.95	.93
	*302	*306	*310	*312	*314	*315	*315	*315	*315	*315	*314	*314	*313	*312	*310	*308	*306	*302	*297	*292	*285	*277	*267	*256
30	.96	.97	.97	.98	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97	.96	.95	.94	.93
	*294	*298	*301	*304	*306	*307	*308	*308	*308	*308	*308	*308	*307	*306	*305	*303	*301	*297	*292	*286	*279	*271	*261	*249
45	.95	.96	.96	.97	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.96	.95	.94	.93	.92
	*281	*285	*289	*291	*293	*295	*296	*297	*297	*298	*298	*298	*297	*297	*296	*294	*291	*288	*282	*276	*269	*260	*249	*237
1300	.94	.94	.95	.95	.96	.96	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.95	.94	.93	.92	.91
	*263	*267	*271	*274	*276	*278	*280	*281	*282	*282	*283	*283	*283	*282	*281	*280	*277	*274	*268	*261	*254	*244	*233	*220
15	.92	.93	.93	.94	.94	.94	.95	.95	.95	.95	.95	.95	.96	.95	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89
	*241	*245	*249	*252	*255	*257	*259	*260	*262	*263	*263	*264	*264	*264	*263	*261	*259	*255	*249	*242	*234	*224	*212	*198
30	.90	.91	.91	.92	.92	.92	.93	.93	.93	.94	.94	.94	.94	.94	.94	.93	.93	.93	.92	.91	.91	.90	.88	.87
	*214	*219	*222	*226	*229	*231	*234	*236	*237	*239	*240	*241	*241	*241	*240	*238	*235	*232	*225	*218	*209	*199	*186	*172
45	.88	.88	.89	.89	.90	.90	.91	.91	.91	.91	.92	.92	.92	.92	.92	.91	.91	.91	.90	.89	.88	.87	.86	.85
	*183	*187	*192	*195	*199	*201	*205	*207	*209	*211	*212	*213	*214	*214	*213	*211	*208	*204	*197	*190	*180	*169	*156	*141

MAY-AUG 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.85	.86	.86	.87	.87	.88	.88	.88	.89	.89	.89	.89	.89	.89	.89	.89	.89	.88	.88	.87	.86	.85	.84	.82
		*147	*152	*157	*161	*164	*168	*171	*174	*176	*178	*180	*182	*182	*182	*181	*180	*177	*172	*165	*157	*147	*135	*122	*106
15		.82	.83	.83	.84	.84	.85	.85	.86	.86	.86	.86	.87	.87	.87	.87	.86	.86	.86	.85	.84	.83	.82	.81	.79
		*107	*113	*118	*122	*126	*130	*134	*137	*140	*142	*144	*146	*147	*147	*146	*144	*141	*136	*128	*120	*110	*097	*083	*066
30		.79	.80	.80	.81	.81	.82	.82	.83	.83	.83	.83	.84	.84	.84	.84	.83	.83	.83	.82	.81	.80	.79	.78	.76
		*064	*070	*075	*080	*084	*088	*093	*097	*100	*103	*105	*107	*108	*108	*107	*105	*101	*096	*088	*079	*068	*055	*040	*023
45		.76	.76	.77	.77	.78	.78	.79	.79	.80	.80	.80	.80	.80	.80	.80	.80	.80	.79	.78	.78	.77	.75	.74	.73
		*016	*023	*028	*034	*039	*043	*048	*052	*056	*059	*062	*064	*065	*065	*064	*062	*058	*053	*044	*031	*023	009	993	975
1500		.72	.72	.73	.74	.74	.75	.75	.76	.76	.76	.77	.77	.77	.77	.77	.77	.76	.76	.75	.74	.73	.72	.70	.69
		966	972	978	984	989	995	*000	*005	*009	*012	*015	*017	*019	*019	*018	*015	*011	*005	996	986	974	959	943	924
15		.68	.68	.69	.70	.70	.71	.71	.72	.72	.73	.73	.73	.73	.73	.73	.73	.72	.72	.71	.70	.69	.68	.66	.65
		911	918	925	931	937	943	949	954	958	962	965	968	969	969	968	965	961	955	945	934	921	906	889	869
30		.63	.64	.65	.66	.66	.67	.67	.68	.68	.69	.69	.69	.69	.69	.69	.69	.68	.68	.67	.66	.65	.64	.62	.60
		854	861	868	875	882	888	895	900	905	909	913	915	916	916	915	912	908	901	890	879	866	850	832	811
45		.59	.60	.60	.61	.62	.62	.63	.64	.64	.64	.65	.65	.65	.65	.65	.65	.64	.64	.63	.62	.60	.59	.58	.56
		794	802	809	817	824	831	838	844	849	853	857	860	861	861	859	856	851	844	833	821	807	790	771	750
1600		.54	.55	.56	.57	.57	.58	.59	.59	.60	.60	.60	.61	.61	.61	.61	.60	.60	.59	.58	.57	.56	.54	.53	.51
		731	739	748	756	763	771	779	785	790	795	799	802	803	803	801	798	792	785	773	760	745	728	708	687
15		.49	.50	.51	.52	.53	.53	.54	.55	.55	.55	.56	.56	.56	.56	.56	.56	.55	.54	.53	.52	.51	.50	.48	.46
		666	675	684	692	700	708	717	724	730	735	738	741	743	742	740	737	731	723	710	697	681	663	643	620
30		.45	.45	.46	.47	.48	.48	.49	.50	.50	.51	.51	.51	.51	.51	.51	.51	.50	.50	.49	.47	.46	.45	.43	.41
		598	608	618	627	636	644	653	660	667	672	676	679	680	680	678	674	667	659	645	632	615	596	575	552
45		.39	.40	.41	.42	.43	.43	.44	.45	.45	.46	.46	.46	.47	.47	.46	.46	.45	.45	.44	.42	.41	.39	.38	.36
		529	540	550	560	569	578	588	596	602	608	612	615	616	615	613	609	602	593	579	564	547	528	506	482

MAY-AUG 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.34	.35	.36	.37	.38	.38	.39	.40	.40	.41	.41	.42	.42	.42	.41	.41	.40	.40	.38	.37	.36	.34	.32	.31
	459	470	481	491	501	511	521	529	536	542	546	549	550	549	547	542	535	525	510	495	477	457	435	410
15	.29	.30	.31	.32	.32	.33	.34	.35	.35	.36	.36	.36	.37	.36	.36	.36	.35	.34	.33	.32	.30	.29	.27	.25
	387	399	410	421	432	442	453	462	469	475	479	482	483	482	479	474	466	456	441	425	406	385	362	337
30	.23	.24	.25	.26	.27	.28	.29	.30	.30	.31	.31	.31	.31	.31	.31	.31	.30	.29	.28	.27	.25	.23	.22	.20
	315	327	339	351	362	373	385	393	401	407	411	414	415	414	411	405	397	386	370	353	334	313	289	263
45	.18	.19	.20	.21	.22	.23	.24	.24	.25	.26	.26	.26	.26	.26	.26	.25	.25	.24	.22	.21	.20	.18	.16	.14
	242	255	267	280	292	303	315	324	332	338	343	346	346	345	341	335	327	315	298	281	261	239	215	188
1800	.13	.14	.15	.16	.17	.18	.19	.19	.20	.20	.21	.21	.21	.21	.21	.20	.19	.18	.17	.15	.14	.12	.10	.08
	168	182	196	209	221	233	246	255	263	269	274	277	277	276	272	265	256	244	226	209	188	165	140	113
15	.07	.08	.09	.10	.11	.12	.13	.14	.15	.15	.16	.16	.16	.16	.15	.15	.14	.13	.12	.10	.09	.07	.05	.03
	095	110	124	137	150	163	176	186	194	200	205	208	208	206	202	195	185	173	154	136	115	091	065	037
30	.02	.03	.04	.05	.06	.07	.08	.09	.09	.10	.10	.11	.11	.10	.10	.09	.09	.08	.06	.05	.03	.01	.00	.00
	022	037	052	067	080	093	107	117	125	132	137	139	139	137	132	125	115	102	083	063	042	018	000	000
45	.00	.00	.00	.00	.01	.02	.03	.04	.04	.05	.05	.05	.05	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00
	000	000	000	000	011	024	038	048	057	064	068	071	071	068	063	055	045	031	011	000	000	000	000	000

MAY-AUG 30 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	0	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	00	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	015	002	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.07	.06	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	091	078	066	053	039	025	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.12	.11	.11	.10	.09	.08	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	167	155	142	129	116	102	087	071	054	036	017	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.15	.14	.13	.12	.11	.10	.08	.07	.05	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	242	230	218	206	193	179	164	148	131	112	093	073	048	027	005	000	000	000	000	000	000	000	000	000
45	.24	.23	.22	.21	.20	.19	.18	.16	.15	.14	.12	.11	.09	.07	.06	.04	.03	.01	.00	.00	.00	.00	.00	.00
	317	305	294	281	268	254	239	223	206	188	168	148	122	101	079	057	036	015	000	000	000	000	000	000
0700	.29	.28	.27	.26	.25	.24	.23	.22	.20	.19	.17	.16	.14	.12	.11	.09	.08	.06	.05	.04	.02	.01	.01	.00
	390	380	368	356	343	329	314	297	280	261	242	221	195	173	151	129	107	087	068	050	034	020	009	001
15	.34	.33	.33	.32	.31	.29	.28	.27	.26	.24	.23	.21	.19	.18	.16	.14	.13	.11	.10	.09	.07	.06	.06	.05
	463	452	441	429	416	402	387	370	352	334	313	292	266	244	221	199	178	157	137	120	104	091	080	072
30	.40	.39	.38	.37	.36	.35	.33	.32	.31	.29	.28	.26	.24	.22	.21	.19	.18	.16	.15	.13	.12	.11	.11	.10
	534	523	512	500	487	473	458	441	423	404	383	362	335	313	290	268	246	225	206	189	172	159	149	141
45	.45	.44	.43	.42	.41	.40	.38	.37	.36	.34	.33	.31	.29	.27	.26	.24	.22	.21	.19	.18	.17	.16	.15	.15
	603	592	581	569	556	542	526	509	491	472	451	429	402	380	357	334	312	291	272	254	239	226	216	209

SEP-DEC 30 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.50	.49	.48	.47	.46	.45	.43	.42	.40	.39	.37	.36	.34	.32	.30	.28	.27	.25	.24	.23	.21	.21	.20	.19
	669	659	648	636	623	608	593	576	557	537	516	494	467	444	421	398	376	355	336	318	303	290	281	274
15	.54	.54	.53	.52	.50	.49	.48	.47	.45	.43	.42	.40	.38	.36	.34	.33	.31	.30	.28	.27	.26	.25	.24	.24
	733	723	712	700	687	672	656	639	620	600	579	556	529	505	482	459	437	416	397	380	365	353	343	337
30	.59	.58	.57	.56	.55	.54	.52	.51	.49	.48	.46	.44	.42	.40	.39	.37	.35	.34	.32	.31	.30	.29	.29	.28
	795	785	774	761	748	733	717	699	680	659	638	615	587	564	540	517	495	474	455	438	424	412	403	397
45	.63	.62	.61	.60	.59	.58	.56	.55	.53	.52	.50	.48	.46	.44	.43	.41	.39	.38	.36	.35	.34	.33	.33	.32
	853	843	832	820	806	791	774	756	736	716	694	671	643	619	595	572	550	529	511	494	480	468	460	455
0900	.67	.66	.65	.64	.63	.62	.60	.59	.57	.56	.54	.52	.50	.48	.46	.44	.43	.41	.40	.39	.38	.37	.36	.36
	908	898	887	874	860	845	828	809	789	768	746	723	694	670	647	624	602	581	563	548	532	522	514	509
15	.71	.70	.69	.68	.67	.66	.64	.63	.61	.59	.57	.56	.53	.51	.50	.48	.46	.45	.43	.42	.41	.40	.40	.40
	960	949	938	925	911	895	878	859	839	817	794	771	742	718	695	672	650	629	611	595	582	571	564	560
30	.75	.74	.73	.72	.70	.69	.67	.66	.64	.62	.61	.59	.56	.55	.53	.51	.49	.48	.47	.45	.44	.44	.43	.43
	*007	997	985	972	958	941	924	904	884	862	839	815	786	762	739	716	694	674	656	640	627	617	611	607
45	.78	.77	.76	.75	.73	.72	.70	.69	.67	.65	.63	.62	.59	.57	.56	.54	.52	.51	.49	.48	.47	.47	.46	.46
	*051	*041	*029	*015	*000	984	965	946	925	903	879	855	826	802	778	755	734	714	696	681	669	660	654	651
1000	.81	.80	.79	.78	.76	.75	.73	.72	.70	.68	.66	.64	.62	.60	.58	.56	.55	.53	.52	.51	.50	.49	.49	.49
	*091	*080	*068	*054	*038	*021	*003	983	961	939	915	891	862	838	814	791	770	750	733	718	707	698	693	691
15	.84	.83	.81	.80	.79	.77	.76	.74	.72	.70	.68	.66	.64	.62	.60	.59	.57	.56	.54	.53	.52	.52	.51	.51
	*126	*115	*102	*088	*072	*055	*036	*015	993	970	947	922	893	869	845	822	801	782	765	751	740	732	727	726
30	.86	.85	.84	.82	.81	.79	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.59	.58	.56	.55	.54	.54	.54	.54
	*157	*146	*132	*118	*101	*083	*064	*043	*021	997	973	949	919	895	872	849	828	810	793	780	769	762	758	757
45	.88	.87	.85	.84	.83	.81	.79	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.59	.58	.57	.56	.56	.55	.55
	*183	*171	*158	*143	*126	*107	*087	*066	*043	*020	995	971	941	917	893	871	851	833	817	804	794	787	784	784

SEP-DEC 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.89	.88	.87	.86	.84	.82	.81	.79	.77	.75	.73	.71	.64	.67	.65	.63	.62	.60	.59	.59	.58	.57	.57	.57
	*205	*193	*179	*163	*145	*126	*106	*084	*061	*037	*013	988	958	934	911	889	869	851	835	823	814	808	805	806
15	.91	.89	.88	.87	.85	.83	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.63	.61	.60	.59	.59	.58	.58	.58
	*222	*209	*194	*178	*160	*141	*120	*097	*074	*050	*025	*000	970	946	923	901	882	864	849	838	829	824	822	824
30	.92	.90	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.65	.63	.62	.61	.60	.59	.59	.59	.59
	*234	*220	*205	*188	*170	*150	*128	*105	*082	*057	*032	*007	977	953	930	909	890	873	859	847	839	835	834	836
45	.92	.91	.89	.88	.86	.84	.83	.81	.79	.77	.75	.73	.70	.68	.67	.65	.64	.62	.61	.60	.60	.60	.59	.60
	*241	*227	*211	*194	*174	*154	*132	*106	*084	*059	*034	*009	979	955	933	912	893	877	863	852	845	841	841	844
1200	.92	.91	.89	.88	.86	.84	.82	.81	.78	.76	.74	.72	.70	.68	.66	.65	.63	.62	.61	.60	.60	.60	.60	.60
	*243	*228	*212	*194	*174	*153	*130	*106	*082	*057	*031	*006	976	953	930	910	891	876	863	853	846	843	843	847
15	.92	.91	.89	.88	.86	.84	.82	.80	.78	.76	.74	.72	.69	.68	.66	.64	.63	.62	.61	.60	.60	.59	.59	.60
	*240	*225	*208	*189	*169	*147	*124	*099	*074	*049	*023	998	968	945	923	903	885	870	857	848	842	840	841	846
30	.91	.90	.88	.87	.85	.83	.81	.79	.77	.75	.73	.71	.69	.67	.65	.64	.62	.61	.60	.59	.59	.59	.59	.59
	*232	*216	*198	*179	*158	*136	*112	*087	*062	*036	*010	985	956	932	911	891	874	859	847	837	834	832	834	839
45	.90	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.67	.66	.64	.62	.61	.60	.59	.58	.58	.58	.58	.59
	*219	*203	*184	*164	*143	*120	*095	*070	*044	*018	993	967	938	915	894	874	858	843	832	825	820	819	822	828
1300	.89	.88	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.60	.59	.58	.57	.57	.57	.57	.57
	*202	*184	*165	*145	*12[illegible]	*099	*074	*048	*022	996	970	944	915	893	872	853	837	823	813	806	802	802	805	812
15	.87	.86	.84	.82	.81	.79	.76	.74	.72	.70	.68	.66	.64	.62	.60	.59	.58	.57	.56	.55	.55	.55	.55	.56
	*179	*161	*141	*120	*097	*073	*047	*021	995	969	942	917	888	866	845	827	811	798	789	782	779	780	784	791
30	.85	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.61	.60	.58	.57	.56	.55	.54	.53	.53	.53	.54	.54
	*152	*133	*113	*091	*067	*042	*016	990	963	937	910	885	856	834	814	796	781	769	760	754	752	753	758	766
45	.83	.81	.80	.78	.76	.74	.72	.69	.67	.65	.63	.61	.59	.57	.56	.54	.53	.52	.52	.51	.51	.51	.51	.52
	*120	*101	*080	*057	*033	*007	981	954	927	900	874	849	820	798	778	761	747	735	727	722	720	722	728	736

SEP-DEC 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.80	.79	.77	.75	.73	.71	.69	.66	.64	.62	.60	.58	.56	.54	.53	.51	.50	.50	.49	.49	.48	.49	.49	.50
	*084	*064	*042	*019	994	968	941	913	886	859	833	808	779	758	739	722	708	697	689	685	684	687	693	702
15	.77	.76	.74	.72	.70	.68	.65	.63	.61	.59	.57	.55	.53	.51	.50	.48	.47	.47	.46	.46	.46	.46	.46	.47
	*044	*023	*000	976	950	924	896	869	841	814	788	763	735	714	695	679	665	655	648	641	644	647	654	664
30	.74	.72	.70	.68	.66	.64	.62	.60	.57	.55	.53	.51	.49	.48	.46	.45	.44	.43	.43	.43	.43	.43	.43	.44
	999	978	954	929	903	876	848	820	792	765	739	714	686	665	647	631	619	609	603	600	600	604	611	622
45	.71	.69	.67	.65	.63	.60	.58	.56	.54	.52	.50	.48	.45	.44	.43	.41	.40	.40	.39	.39	.39	.39	.40	.41
	951	928	904	879	852	824	796	768	739	712	686	661	634	613	595	580	568	559	553	551	552	557	565	576
1500	.67	.65	.63	.61	.58	.56	.54	.52	.50	.47	.45	.44	.41	.40	.39	.38	.37	.36	.36	.35	.35	.36	.36	.37
	899	875	851	824	797	769	740	711	683	656	629	605	578	558	540	526	514	506	501	499	501	506	514	526
15	.63	.61	.59	.56	.54	.52	.50	.47	.45	.43	.41	.39	.37	.36	.34	.33	.33	.32	.32	.31	.32	.32	.33	.33
	843	819	793	767	738	710	681	652	623	596	570	545	519	499	482	468	457	449	445	444	446	452	461	472
30	.58	.56	.54	.52	.50	.47	.45	.43	.41	.39	.37	.35	.33	.31	.30	.29	.28	.28	.27	.27	.28	.28	.29	.29
	784	759	733	706	677	648	618	589	561	533	507	483	456	437	421	407	397	390	386	385	388	394	404	416
45	.54	.52	.49	.47	.45	.43	.40	.38	.36	.34	.32	.30	.28	.27	.26	.25	.24	.23	.23	.23	.23	.24	.24	.25
	722	697	670	642	612	583	553	524	495	467	442	417	392	373	357	344	334	328	324	324	328	334	344	356
1600	.49	.47	.45	.42	.40	.38	.35	.33	.31	.29	.27	.25	.23	.22	.21	.20	.19	.19	.18	.19	.19	.19	.20	.21
	658	631	604	575	545	515	485	456	427	399	373	350	324	306	290	278	269	263	260	261	264	271	281	294
15	.44	.42	.40	.37	.35	.33	.30	.28	.26	.24	.22	.20	.18	.17	.16	.15	.14	.14	.14	.14	.14	.15	.15	.16
	591	564	535	506	476	445	415	385	356	329	303	280	255	237	222	210	201	196	193	195	199	206	217	230
30	.39	.37	.34	.32	.30	.27	.25	.23	.21	.19	.17	.15	.13	.12	.11	.10	.09	.09	.09	.09	.09	.10	.11	.12
	521	494	465	435	404	374	343	313	284	257	231	208	183	166	151	140	132	127	125	125	131	139	150	163
45	.33	.31	.29	.27	.24	.22	.20	.17	.15	.13	.11	.10	.08	.07	.06	.05	.04	.04	.04	.04	.04	.05	.06	.07
	450	422	393	362	331	300	269	239	210	183	157	134	110	093	079	068	060	056	055	057	062	070	081	094

SEP-DEC 30 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.26	.24	.21	.19	.16	.14	.12	.10	.08	.06	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02
	377	349	319	288	256	225	194	164	135	108	082	060	036	019	006	000	000	000	000	000	000	000	010	024
15	.23	.20	.18	.16	.13	.11	.09	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	304	274	244	212	180	149	118	087	058	031	006	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.08	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	229	199	168	136	104	072	041	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.11	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	153	123	091	059	027	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	077	046	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	002	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 30 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIFES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	022
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	053	076	098
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.10	.11	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	049	077	104	129	152	173
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.11	.13	.15	.17	.18
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	001	031	062	092	127	155	182	206	229	249
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.10	.13	.15	.17	.19	.21	.23	.24
	000	000	000	000	000	000	000	000	000	000	000	000	023	051	081	111	141	171	206	233	259	283	304	324
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.07	.09	.12	.14	.16	.18	.21	.23	.25	.26	.28	.30
	000	000	000	000	000	000	000	000	000	013	035	059	102	131	160	190	220	249	283	310	335	359	379	398
0700	.02	.01	.01	.01	.01	.02	.03	.04	.05	.07	.08	.10	.13	.15	.17	.19	.22	.24	.26	.28	.30	.32	.34	.35
	021	017	015	016	020	027	037	054	071	091	113	138	181	209	239	268	298	327	360	386	411	433	453	471
15	.07	.06	.06	.06	.07	.07	.08	.09	.11	.12	.14	.15	.19	.21	.23	.25	.27	.29	.32	.34	.36	.37	.39	.40
	093	089	088	089	094	102	113	130	148	168	191	215	258	287	316	346	375	403	436	461	485	507	526	543
30	.12	.11	.11	.11	.12	.12	.13	.15	.16	.17	.19	.21	.24	.26	.28	.31	.33	.35	.37	.39	.41	.43	.44	.46
	164	161	159	162	167	175	187	205	223	243	266	291	335	363	392	421	450	478	510	535	558	579	597	613
45	.16	.16	.16	.16	.17	.18	.18	.20	.21	.23	.24	.26	.29	.32	.34	.36	.38	.40	.43	.44	.46	.48	.49	.51
	233	230	229	232	238	247	259	278	296	317	341	366	409	437	466	495	523	551	582	606	628	649	666	682

JAN-APR 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.21	.21	.21	.21	.22	.22	.23	.25	.26	.28	.30	.31	.35	.37	.39	.41	.43	.45	.48	.50	.51	.53	.54	.55
	300	297	297	301	307	317	330	349	368	389	413	438	481	510	538	566	594	621	652	675	697	716	733	748
15	.26	.26	.26	.26	.27	.27	.28	.30	.31	.33	.35	.36	.40	.42	.44	.46	.48	.50	.53	.54	.56	.58	.59	.60
	364	362	363	367	374	384	398	417	437	459	482	508	551	579	608	636	663	689	719	742	763	781	798	812
30	.30	.30	.30	.30	.31	.32	.33	.34	.36	.38	.39	.41	.45	.47	.49	.51	.53	.55	.57	.59	.61	.62	.64	.65
	426	425	426	430	438	449	463	484	503	526	550	575	619	647	674	702	729	755	784	805	826	844	859	872
45	.34	.34	.34	.35	.35	.36	.37	.39	.40	.42	.44	.46	.49	.51	.53	.55	.58	.60	.62	.64	.65	.67	.68	.69
	485	484	486	491	500	511	526	547	567	590	614	640	683	711	738	765	792	817	845	866	886	903	918	930
0900	.38	.38	.38	.39	.40	.40	.42	.43	.45	.46	.48	.50	.54	.56	.58	.60	.62	.64	.66	.68	.69	.71	.72	.73
	541	540	543	549	558	570	585	607	628	651	675	701	744	772	799	826	851	876	903	924	942	959	973	984
15	.42	.42	.42	.43	.43	.44	.46	.47	.49	.51	.52	.54	.58	.60	.62	.64	.66	.68	.70	.72	.73	.75	.76	.77
	593	593	596	603	613	626	641	664	685	708	733	759	802	829	856	882	907	931	958	977	995	011	024	035
30	.45	.45	.46	.46	.47	.48	.49	.51	.53	.54	.56	.58	.62	.64	.66	.68	.70	.72	.74	.75	.77	.78	.79	.80
	641	642	646	654	664	678	694	717	738	762	787	813	856	883	909	935	959	983	008	027	044	059	072	083
45	.49	.49	.49	.50	.50	.51	.53	.54	.56	.58	.60	.62	.65	.67	.69	.71	.73	.75	.77	.79	.80	.81	.83	.83
	686	687	692	700	711	726	743	766	788	812	837	863	905	932	958	984	008	030	055	073	090	104	116	126
1000	.51	.52	.52	.53	.53	.55	.56	.58	.59	.61	.63	.65	.68	.70	.73	.74	.76	.78	.80	.82	.83	.84	.85	.86
	727	729	734	743	755	770	787	811	834	858	883	909	951	978	003	028	051	073	097	115	131	144	155	165
15	.54	.54	.55	.55	.56	.57	.59	.61	.62	.64	.66	.68	.71	.73	.75	.77	.79	.81	.83	.85	.86	.87	.88	.89
	763	766	772	782	794	810	828	852	875	899	924	950	993	018	044	068	091	112	135	152	167	180	191	199
30	.56	.56	.57	.58	.59	.60	.61	.63	.65	.67	.69	.71	.74	.76	.78	.80	.82	.84	.85	.87	.88	.89	.90	.91
	795	798	805	816	829	845	864	889	912	936	962	987	029	055	080	103	126	146	169	185	199	211	222	230
45	.58	.58	.59	.60	.61	.62	.64	.65	.67	.69	.71	.73	.76	.78	.80	.82	.84	.86	.88	.89	.90	.91	.92	.93
	823	827	834	845	859	876	895	921	944	969	994	020	061	087	111	134	156	176	197	213	227	238	248	255

JAN-APR 28 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.60	.60	.61	.62	.63	.64	.65	.67	.69	.71	.73	.75	.78	.80	.82	.84	.86	.87	.89	.91	.92	.93	.94	.95
	846	850	859	870	885	902	922	948	971	996	*022	*047	*085	*113	*137	*160	*181	*200	*221	*239	*248	*260	*269	*276
15	.61	.61	.62	.63	.64	.65	.67	.69	.71	.73	.75	.77	.80	.82	.84	.86	.87	.89	.91	.92	.93	.94	.95	.96
	864	869	878	890	906	923	944	970	994	*019	*044	*070	*111	*135	*159	*181	*201	*220	*240	*253	*267	*277	*286	*293
30	.62	.62	.63	.64	.65	.67	.68	.70	.72	.74	.76	.78	.81	.83	.85	.87	.88	.90	.92	.93	.94	.95	.96	.97
	877	883	893	906	922	940	961	988	*012	*037	*062	*088	*128	*152	*175	*196	*216	*234	*254	*268	*279	*289	*298	*304
45	.63	.63	.64	.65	.66	.67	.69	.71	.73	.75	.77	.79	.82	.84	.86	.87	.89	.91	.92	.94	.95	.96	.96	.97
	886	892	903	916	933	952	973	*000	*024	*049	*075	*100	*140	*163	*186	*207	*226	*244	*262	*276	*287	*297	*304	*310
1200	.63	.63	.64	.65	.66	.68	.69	.72	.73	.75	.77	.79	.82	.84	.86	.88	.89	.91	.93	.94	.95	.96	.97	.97
	889	896	907	922	939	958	979	*007	*032	*057	*082	*107	*147	*170	*192	*212	*231	*248	*266	*279	*290	*299	*306	*312
15	.63	.63	.64	.65	.67	.68	.70	.72	.74	.76	.77	.79	.83	.84	.86	.88	.89	.91	.92	.94	.95	.96	.96	.97
	888	895	907	922	940	960	981	*009	*034	*059	*084	*109	*148	*171	*193	*213	*231	*247	*264	*277	*287	*296	*303	*308
30	.62	.63	.64	.65	.66	.68	.69	.72	.73	.75	.77	.79	.82	.84	.86	.88	.89	.90	.92	.93	.94	.95	.96	.96
	882	890	902	918	936	956	978	*006	*031	*056	*081	*106	*145	*167	*188	*207	*225	*241	*258	*270	*280	*288	*295	*300
45	.62	.62	.63	.64	.66	.67	.69	.71	.73	.75	.77	.79	.82	.83	.85	.87	.88	.90	.91	.92	.93	.94	.95	.95
	871	879	892	908	927	948	970	998	*023	*048	*073	*098	*136	*158	*178	*197	*214	*230	*246	*257	*267	*275	*282	*287
1300	.60	.61	.62	.63	.65	.66	.68	.70	.72	.74	.76	.78	.81	.82	.84	.86	.87	.88	.90	.91	.92	.93	.93	.94
	855	864	877	894	913	934	957	985	*010	*035	*060	*084	*122	*143	*163	*182	*199	*213	*229	*240	*249	*257	*264	*269
15	.59	.60	.61	.62	.63	.65	.67	.69	.71	.73	.74	.76	.79	.81	.83	.84	.86	.87	.88	.89	.90	.91	.92	.92
	834	843	858	875	894	915	938	967	992	*017	*042	*066	*102	*124	*143	*161	*178	*192	*207	*218	*227	*234	*241	*246
30	.57	.58	.59	.60	.62	.63	.65	.67	.69	.71	.73	.75	.78	.79	.81	.82	.84	.85	.86	.87	.88	.89	.90	.90
	808	818	833	851	871	892	915	944	969	994	*018	*042	*078	*099	*118	*136	*152	*166	*180	*191	*200	*207	*213	*218
45	.55	.56	.57	.58	.60	.61	.63	.65	.67	.69	.71	.73	.75	.77	.79	.80	.81	.83	.84	.85	.86	.87	.87	.88
	778	789	804	822	842	864	887	916	941	966	990	*014	*049	*070	*088	*105	*121	*135	*149	*159	*168	*175	*181	*186

JAN-APR 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.53	.53	.54	.56	.57	.59	.61	.63	.65	.67	.68	.70	.73	.75	.76	.78	.79	.80	.81	.82	.83	.84	.85	.85
	744	755	770	789	809	831	855	884	908	933	957	980	*015	*035	*054	*070	*085	*099	*113	*123	*131	*138	*145	*150
15	.50	.51	.52	.53	.55	.56	.58	.60	.62	.64	.66	.67	.70	.72	.73	.75	.76	.77	.78	.79	.80	.81	.82	.82
	705	716	733	751	772	794	818	847	871	895	919	942	977	996	*014	*031	*045	*058	*072	*082	*090	*097	*104	*109
30	.47	.48	.49	.50	.52	.53	.55	.57	.59	.61	.63	.64	.67	.69	.70	.71	.73	.74	.75	.75	.77	.78	.78	.79
	662	674	690	709	730	753	776	805	829	854	877	900	934	953	970	986	*001	*014	*027	*037	*045	*052	*059	*065
45	.44	.44	.46	.47	.48	.50	.52	.54	.56	.58	.59	.61	.64	.65	.67	.68	.69	.70	.72	.72	.73	.74	.75	.75
	615	627	644	663	684	707	730	759	783	807	831	853	886	905	922	938	952	965	978	987	996	*003	*010	*016
1500	.40	.41	.42	.43	.45	.47	.48	.50	.52	.54	.56	.57	.60	.62	.63	.64	.65	.66	.68	.69	.69	.70	.71	.71
	565	577	594	614	635	657	681	709	733	757	780	802	835	853	870	886	899	912	925	934	943	950	957	964
15	.36	.37	.38	.40	.41	.43	.45	.47	.48	.50	.52	.54	.56	.57	.59	.60	.61	.62	.63	.64	.65	.66	.67	.67
	510	523	540	560	581	604	627	656	680	703	726	747	779	797	814	829	843	855	868	878	886	894	901	908
30	.32	.33	.34	.36	.37	.39	.40	.43	.44	.46	.48	.49	.52	.53	.55	.56	.57	.58	.59	.60	.61	.62	.62	.63
	453	466	483	503	524	547	570	598	622	645	667	689	720	738	754	769	783	795	808	818	826	834	842	849
45	.28	.29	.30	.31	.33	.35	.36	.38	.40	.42	.43	.45	.47	.49	.50	.51	.52	.53	.54	.55	.56	.57	.58	.58
	392	405	423	443	464	487	510	538	561	584	606	627	658	675	691	706	719	732	745	754	763	772	780	787
1600	.23	.24	.25	.27	.28	.30	.32	.34	.35	.37	.39	.40	.43	.44	.45	.46	.47	.49	.50	.50	.51	.52	.53	.54
	329	342	360	380	401	423	446	474	497	520	541	562	592	610	625	640	653	665	678	688	698	706	714	722
15	.19	.20	.21	.22	.24	.25	.27	.29	.31	.32	.34	.35	.38	.39	.40	.41	.42	.43	.45	.45	.46	.47	.48	.49
	263	276	294	314	335	357	380	408	430	452	474	494	524	541	557	571	584	596	609	620	629	638	647	655
30	.14	.15	.16	.17	.19	.21	.22	.24	.26	.27	.29	.30	.33	.34	.35	.36	.37	.38	.39	.40	.41	.42	.43	.43
	195	208	226	246	267	289	311	338	361	383	403	423	453	470	485	499	513	525	538	549	559	568	577	586
45	.09	.10	.11	.12	.14	.16	.17	.19	.21	.22	.24	.25	.27	.29	.30	.31	.32	.33	.34	.35	.36	.37	.37	.38
	125	138	156	176	197	218	241	267	289	310	331	351	380	396	412	426	439	451	465	475	486	496	506	515

JAN-APR 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																							
	JAN							FEB						MAR										APR																	
	1		5		10		15		20		25		30	5		10		15		20		25	5		10		15		20		25		30	5		10		15		20		25		30
1700	.04		.05		.06		.07		.09		.10		.12	.14		.15		.17		.18		.20	.22		.23		.24		.25		.26		.27	.29		.29		.30		.31		.32		.33
	054		067		085		104		125		146		168	194		215		236		257		276	305		321		336		350		364		376	390		401		412		422		433		443
15	.00		.00		.01		.02		.04		.05		.07	.09		.10		.12		.13		.14	.16		.18		.19		.20		.21		.22	.23		.24		.25		.26		.27		.27
	000		000		011		031		051		072		093	119		140		161		181		200	220		244		259		273		287		299	314		325		336		347		358		369
30	.00		.00		.00		.00		.00		.00		.01	.03		.05		.06		.07		.09	.11		.12		.13		.14		.15		.16	.17		.18		.19		.20		.21		.22
	000		000		000		000		000		000		018	043		064		084		103		122	150		166		181		195		209		221	236		248		260		271		283		294
45	.00		.00		.00		.00		.00		.00		.00	.00		.00		.00		.02		.03	.05		.06		.07		.08		.09		.10	.12		.13		.13		.14		.15		.16
	000		000		000		000		000		000		000	000		000		006		025		043	071		087		102		116		130		143	158		170		183		195		207		219
1800	.00		.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00	.00		.01		.02		.03		.04		.05	.06		.07		.08		.09		.10		.11
	000		000		000		000		000		000		000	000		000		000		000		000	000		007		022		036		050		064	079		092		105		118		131		144
15	.00		.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00	.00		.00		.00		.00		.00		.00	.00		.01		.02		.03		.04		.05
	000		000		000		000		000		000		000	000		000		000		000		000	000		000		000		000		000		000	001		014		028		041		055		068
30	.00		.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00	.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00		.00
	000		000		000		000		000		000		000	000		000		000		000		000	000		000		000		000		000		000	000		000		000		000		000		000
45	.00		.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00	.00		.00		.00		.00		.00		.00	.00		.00		.00		.00		.00		.00
	000		000		000		000		000		000		000	000		000		000		000		000	000		000		000		000		000		000	000		000		000		000		000		000

JAN-APR 28 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.01	.02	.02	.03	.03	.03	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	001	013	023	030	035	036	035	032	027	020	012	002	000	000	000	000	000	000	000	000	000	000
30	.03	.04	.06	.06	.07	.08	.08	.08	.08	.08	.07	.07	.06	.05	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00
	042	059	074	085	094	101	105	106	105	101	096	089	081	071	061	049	037	024	009	000	000	000	000	000
45	.09	.10	.11	.12	.12	.13	.13	.13	.13	.13	.13	.12	.11	.11	.10	.09	.08	.07	.06	.05	.04	.03	.03	.02
	117	133	147	158	166	172	176	176	175	171	166	159	151	141	131	120	108	096	082	070	058	046	034	022
0600	.14	.15	.16	.17	.18	.18	.19	.19	.19	.18	.18	.17	.17	.16	.15	.14	.14	.13	.12	.11	.10	.09	.08	.07
	191	207	220	230	238	243	247	247	245	241	236	229	221	212	202	192	180	169	155	144	132	121	110	099
15	.20	.21	.22	.23	.23	.24	.24	.24	.24	.24	.23	.23	.22	.21	.21	.20	.19	.18	.17	.16	.16	.15	.14	.13
	266	281	293	303	310	315	318	317	315	312	306	300	292	283	273	263	253	242	229	218	207	196	186	176
30	.25	.26	.27	.28	.29	.29	.29	.29	.29	.29	.28	.28	.27	.27	.26	.25	.25	.24	.23	.22	.21	.20	.20	.19
	340	355	366	375	382	386	388	388	386	382	376	370	362	353	344	335	325	314	302	292	282	272	262	252
45	.31	.32	.33	.33	.34	.34	.35	.35	.34	.34	.34	.33	.33	.32	.31	.31	.30	.29	.28	.27	.27	.26	.25	.24
	414	427	438	447	453	456	458	457	455	451	446	439	432	424	415	405	396	386	375	365	356	346	337	327
0700	.36	.37	.38	.39	.39	.40	.40	.40	.40	.39	.39	.38	.38	.37	.37	.36	.35	.34	.34	.33	.32	.31	.31	.30
	486	499	509	517	523	526	527	526	524	520	514	508	501	493	484	476	467	458	447	438	429	420	411	402
15	.41	.42	.43	.44	.44	.45	.45	.45	.45	.44	.44	.44	.43	.42	.42	.41	.40	.40	.39	.39	.38	.37	.36	.35
	558	570	579	586	591	594	595	594	591	587	582	575	569	561	553	545	536	528	517	509	501	492	484	476
30	.47	.48	.48	.49	.49	.50	.50	.50	.50	.49	.49	.49	.48	.47	.47	.46	.46	.45	.44	.43	.43	.42	.41	.41
	627	639	647	654	658	661	661	660	657	653	648	642	635	628	620	612	604	596	587	579	571	563	555	547
45	.52	.53	.53	.54	.54	.55	.55	.55	.54	.54	.54	.53	.53	.52	.52	.51	.51	.50	.49	.49	.48	.47	.47	.46
	695	705	714	720	724	726	726	724	721	717	712	706	700	693	686	678	671	663	655	647	640	633	625	617

MAY-AUG 28 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.57	.57	.58	.59	.59	.59	.59	.59	.59	.59	.58	.58	.58	.57	.57	.56	.55	.55	.54	.54	.53	.52	.52	.51
	760	770	778	783	787	788	788	786	783	779	774	769	762	756	749	742	735	729	720	713	706	700	692	685
15	.61	.62	.63	.63	.64	.64	.64	.64	.64	.63	.63	.63	.62	.62	.61	.61	.60	.60	.59	.58	.58	.57	.57	.56
	823	832	839	844	847	849	848	846	843	839	834	829	823	817	811	804	798	791	784	777	771	764	757	750
30	.66	.66	.67	.68	.68	.68	.68	.68	.68	.68	.67	.67	.67	.66	.66	.65	.65	.64	.63	.63	.62	.62	.61	.60
	883	892	898	903	905	906	905	903	900	896	892	887	881	875	869	864	858	852	844	838	832	826	820	813
45	.70	.71	.71	.72	.72	.72	.72	.72	.72	.72	.72	.71	.71	.70	.70	.69	.69	.68	.68	.67	.67	.66	.66	.65
	940	948	954	958	960	961	960	958	955	951	946	942	936	931	926	920	915	909	902	897	891	885	879	872
0900	.74	.75	.75	.76	.76	.76	.76	.76	.76	.76	.75	.75	.75	.74	.74	.73	.73	.73	.72	.71	.71	.70	.70	.69
	994	*001	*007	*010	*012	*013	*011	*009	*006	*002	998	994	989	984	979	974	969	964	957	952	947	941	935	928
15	.78	.78	.79	.79	.80	.80	.80	.80	.80	.79	.79	.79	.78	.78	.78	.77	.77	.76	.76	.75	.75	.74	.74	.73
	*044	*051	*056	*059	*061	*061	*060	*057	*054	*051	*047	*042	*038	*033	*029	*024	*019	*015	*009	*004	999	993	987	981
30	.81	.82	.82	.83	.83	.83	.83	.83	.83	.83	.82	.82	.82	.82	.81	.81	.80	.80	.79	.79	.78	.78	.77	.77
	*091	*097	*102	*104	*106	*106	*104	*102	*099	*096	*092	*088	*084	*079	*075	*071	*067	*062	*057	*052	*048	*042	*036	*030
45	.84	.85	.85	.86	.86	.86	.86	.85	.86	.86	.86	.85	.85	.85	.84	.84	.84	.83	.83	.82	.82	.81	.81	.80
	*133	*139	*143	*146	*147	*147	*145	*143	*140	*137	*133	*130	*126	*122	*118	*114	*110	*106	*101	*097	*092	*087	*081	*074
1000	.87	.88	.88	.89	.89	.89	.89	.89	.89	.89	.88	.88	.88	.88	.87	.87	.87	.86	.86	.85	.85	.84	.84	.83
	*172	*177	*181	*183	*184	*184	*182	*180	*177	*174	*171	*168	*164	*161	*157	*154	*150	*146	*142	*138	*133	*128	*122	*115
15	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.89	.88	.88	.87	.86	.86
	*206	*211	*214	*216	*217	*217	*215	*213	*211	*208	*205	*202	*199	*195	*192	*189	*186	*183	*178	*174	*170	*164	*158	*151
30	.92	.92	.93	.93	.93	.94	.94	.94	.94	.93	.93	.93	.93	.93	.92	.92	.92	.91	.91	.91	.90	.89	.89	.88
	*236	*241	*244	*245	*246	*245	*244	*242	*240	*237	*234	*232	*229	*226	*223	*220	*218	*214	*210	*205	*202	*197	*190	*183
45	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.94	.94	.93	.93	.92	.92	.91	.90
	*261	*266	*268	*270	*270	*270	*268	*267	*265	*262	*260	*257	*255	*253	*250	*248	*245	*242	*238	*234	*230	*224	*218	*210

MAY-AUG 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.95	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.93	.92
	*282	*286	*288	*290	*290	*290	*288	*287	*285	*283	*281	*279	*277	*275	*272	*270	*268	*265	*261	*257	*253	*247	*241	*233
15	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.97	.96	.95	.95	.95	.94	.93
	*298	*301	*304	*305	*305	*305	*304	*303	*301	*299	*298	*296	*294	*292	*290	*288	*286	*284	*280	*275	*271	*266	*259	*251
30	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.98	.97	.97	.96	.96	.95	.94
	*309	*312	*315	*316	*316	*316	*315	*314	*313	*311	*310	*308	*307	*305	*304	*302	*300	*297	*294	*290	*285	*279	*272	*263
45	.98	.98	.99	.99	.99	.99	.99	***	***	***	.99	.99	.99	.99	.99	.99	.99	.98	.98	.97	.97	.96	.95	.95
	*315	*318	*320	*322	*322	*322	*321	*321	*320	*318	*317	*316	*315	*314	*312	*311	*309	*307	*303	*299	*294	*288	*280	*271
1200	.98	.98	.99	.99	.99	.99	***	***	***	***	***	***	***	***	.99	.99	.99	.99	.98	.98	.97	.97	.96	.95
	*316	*320	*322	*323	*324	*324	*323	*323	*322	*321	*320	*320	*319	*318	*317	*315	*313	*311	*307	*303	*298	*291	*283	*274
15	.98	.98	.98	.99	.99	.99	.99	.99	***	***	***	***	***	.99	.99	.99	.99	.99	.98	.98	.97	.96	.96	.95
	*313	*316	*318	*319	*320	*320	*320	*320	*320	*319	*319	*318	*318	*317	*316	*315	*313	*311	*307	*302	*297	*290	*281	*272
30	.97	.97	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.97	.97	.96	.95	.94
	*304	*307	*310	*311	*312	*313	*313	*313	*313	*313	*313	*312	*312	*312	*311	*310	*308	*306	*301	*297	*291	*284	*275	*264
45	.96	.96	.97	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.95	.94	.93
	*291	*294	*296	*298	*299	*300	*301	*301	*301	*302	*302	*302	*302	*302	*301	*300	*298	*296	*291	*286	*280	*272	*263	*252
1300	.95	.95	.95	.96	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.95	.95	.94	.93	.92
	*273	*276	*279	*280	*282	*283	*284	*285	*286	*286	*287	*287	*287	*287	*287	*286	*284	*281	*277	*271	*265	*256	*247	*235
15	.93	.93	.94	.94	.94	.95	.95	.95	.95	.96	.96	.96	.96	.96	.96	.96	.95	.95	.95	.94	.93	.92	.91	.90
	*250	*253	*256	*258	*260	*261	*263	*264	*265	*266	*267	*268	*268	*268	*268	*267	*265	*262	*257	*252	*244	*236	*225	*213
30	.91	.91	.92	.92	.93	.93	.93	.93	.94	.94	.94	.94	.94	.94	.94	.94	.94	.93	.93	.92	.91	.90	.89	.88
	*223	*226	*229	*232	*234	*235	*237	*239	*240	*242	*243	*244	*245	*245	*244	*243	*241	*238	*233	*227	*220	*210	*199	*186
45	.89	.89	.89	.90	.90	.91	.91	.91	.91	.92	.92	.92	.92	.92	.92	.92	.91	.91	.91	.90	.89	.88	.87	.86
	*191	*195	*198	*200	*203	*205	*208	*210	*211	*213	*215	*216	*217	*217	*217	*216	*214	*210	*205	*199	*190	*180	*168	*155

MAY-AUG 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.86	.86	.87	.87	.88	.88	.88	.89	.89	.89	.89	.89	.90	.90	.89	.89	.89	.89	.88	.87	.87	.86	.85	.83
	*155	*159	*162	*165	*168	*171	*174	*176	*178	*180	*182	*184	*185	*185	*185	*184	*181	*178	*172	*165	*156	*146	*133	*119
15	.83	.83	.84	.84	.85	.85	.85	.86	.86	.86	.87	.87	.87	.87	.87	.87	.86	.86	.85	.85	.84	.83	.82	.80
	*114	*118	*122	*126	*129	*132	*136	*139	*141	*144	*146	*147	*149	*149	*149	*147	*145	*141	*135	*127	*118	*107	*094	*078
30	.80	.80	.81	.81	.81	.82	.82	.83	.83	.83	.83	.84	.84	.84	.84	.84	.83	.83	.82	.81	.81	.80	.78	.77
	*070	*074	*079	*083	*086	*090	*094	*097	*100	*103	*105	*107	*109	*109	*109	*107	*105	*101	*093	*085	*075	*064	*050	*034
45	.76	.76	.77	.78	.78	.78	.79	.79	.80	.80	.80	.80	.80	.80	.80	.80	.80	.80	.79	.78	.77	.76	.75	.73
	*021	*026	*031	*036	*040	*044	*048	*052	*056	*059	*061	*063	*065	*065	*065	*064	*061	*056	*048	*040	*029	*017	*002	985
1500	.72	.73	.73	.74	.74	.75	.75	.76	.76	.76	.77	.77	.77	.77	.77	.77	.76	.76	.75	.74	.73	.72	.71	.69
	969	975	980	985	990	994	*000	*004	*007	*011	*014	*016	*018	*018	*018	*016	*013	*008	*000	991	979	966	951	933
15	.68	.69	.69	.70	.70	.71	.71	.72	.72	.72	.73	.73	.73	.73	.73	.73	.73	.72	.71	.70	.69	.68	.67	.65
	914	920	926	931	936	942	947	952	956	960	963	966	967	968	967	965	962	956	947	938	926	912	896	877
30	.64	.64	.65	.65	.66	.67	.67	.68	.68	.68	.69	.69	.69	.69	.69	.69	.68	.68	.67	.66	.65	.64	.62	.61
	856	862	868	874	880	886	892	897	902	906	909	912	914	914	913	911	907	901	892	882	869	854	837	818
45	.59	.60	.60	.61	.62	.62	.63	.63	.64	.64	.64	.65	.65	.65	.65	.64	.64	.64	.63	.62	.61	.59	.58	.56
	794	801	808	814	821	827	834	840	845	849	853	855	857	857	857	854	850	843	833	822	809	794	776	756
1600	.54	.55	.56	.56	.57	.58	.58	.59	.59	.60	.60	.60	.60	.60	.60	.60	.60	.59	.58	.57	.56	.55	.53	.51
	730	738	745	752	759	766	774	779	785	789	793	796	798	798	797	794	790	783	772	760	747	730	712	691
15	.49	.50	.51	.51	.52	.53	.54	.54	.55	.55	.55	.56	.56	.56	.56	.55	.55	.54	.53	.52	.51	.50	.48	.46
	664	672	680	687	695	702	711	717	723	728	732	735	736	737	735	732	727	720	708	696	681	664	645	624
30	.44	.45	.46	.46	.47	.48	.49	.49	.50	.50	.50	.51	.51	.51	.51	.50	.50	.49	.48	.47	.46	.45	.43	.41
	595	604	612	621	629	637	646	653	659	664	668	671	673	673	671	668	662	654	642	629	614	596	576	554
45	.39	.40	.41	.41	.42	.43	.44	.44	.45	.45	.46	.46	.46	.46	.46	.45	.45	.44	.43	.42	.41	.39	.38	.36
	525	534	543	552	561	570	579	586	593	598	603	606	607	607	605	601	595	587	574	560	544	526	505	482

MAY-AUG 28 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.34	.35	.35	.36	.37	.38	.38	.39	.40	.40	.40	.41	.41	.41	.41	.40	.40	.39	.38	.37	.35	.34	.32	.30
	453	463	473	482	492	501	511	519	525	531	536	539	540	540	538	533	527	518	504	490	473	454	433	409
15	.28	.29	.30	.31	.32	.32	.33	.34	.34	.35	.35	.36	.36	.36	.35	.35	.35	.34	.33	.31	.30	.29	.27	.25
	380	391	401	411	421	431	442	450	457	463	467	470	472	471	469	464	457	448	433	418	401	381	359	334
30	.23	.24	.25	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30	.30	.30	.29	.28	.27	.26	.25	.23	.21	.19
	306	317	329	340	350	360	372	380	387	393	398	401	402	402	399	394	386	376	361	345	327	307	284	259
45	.17	.18	.19	.20	.21	.22	.23	.23	.24	.24	.25	.25	.25	.25	.25	.24	.24	.23	.22	.20	.19	.17	.16	.14
	231	243	255	267	278	289	301	310	317	324	328	331	332	332	328	323	315	304	288	272	253	232	208	183
1800	.12	.13	.14	.15	.16	.16	.17	.18	.19	.19	.20	.20	.20	.20	.19	.19	.18	.17	.16	.15	.13	.12	.10	.08
	157	169	182	194	206	218	230	239	247	253	258	261	262	261	257	251	243	232	215	198	179	157	132	106
15	.06	.07	.08	.09	.10	.11	.12	.13	.13	.14	.14	.14	.15	.14	.14	.14	.13	.12	.11	.09	.08	.06	.04	.02
	082	095	109	122	134	146	159	168	177	183	188	191	192	190	186	180	171	159	142	124	104	081	056	029
30	.01	.02	.03	.04	.05	.06	.07	.07	.08	.09	.09	.09	.09	.09	.09	.08	.07	.07	.05	.04	.02	.00	.00	.00
	008	022	036	050	063	075	088	098	106	113	118	121	121	120	115	108	099	087	068	050	029	006	000	000
45	.00	.00	.00	.00	.00	.00	.01	.02	.03	.03	.04	.04	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	005	018	028	037	044	049	051	052	049	045	037	027	015	000	000	000	000	000	000

MAY-AUG 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.06	.06	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	086	075	064	052	040	028	014	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.12	.11	.11	.10	.09	.08	.07	.06	.05	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	163	153	142	131	119	106	093	079	063	047	029	011	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.16	.15	.14	.14	.13	.11	.10	.09	.08	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	240	230	219	208	197	184	171	157	141	124	106	088	064	044	023	002	000	000	000	000	000	000	000	000
45	.23	.23	.22	.21	.20	.19	.18	.17	.16	.15	.13	.12	.10	.09	.07	.06	.04	.03	.01	.00	.00	.00	.00	.00
	316	306	296	286	274	262	248	234	218	201	183	164	140	119	098	077	056	036	018	000	000	000	000	000
0700	.29	.28	.27	.27	.26	.25	.24	.23	.21	.20	.19	.17	.15	.14	.12	.11	.09	.08	.06	.05	.04	.03	.02	.02
	391	382	372	361	350	338	324	309	293	276	258	238	214	193	172	150	129	109	090	073	057	044	032	024
15	.35	.34	.33	.32	.31	.30	.29	.28	.27	.25	.24	.22	.21	.19	.17	.16	.14	.13	.12	.10	.09	.08	.07	.07
	465	456	446	436	424	412	398	383	367	350	331	311	286	265	243	222	201	181	162	144	129	115	104	096
30	.40	.39	.38	.37	.37	.35	.34	.33	.32	.31	.29	.28	.26	.24	.22	.21	.19	.18	.16	.15	.14	.13	.12	.12
	537	528	519	508	497	485	471	456	439	421	402	382	357	335	313	292	271	250	231	214	198	185	174	166
45	.45	.44	.44	.43	.42	.41	.39	.38	.37	.36	.34	.32	.31	.29	.27	.26	.24	.23	.21	.20	.19	.18	.17	.17
	608	599	589	579	568	555	541	526	509	491	471	451	425	403	381	359	338	318	299	281	266	253	243	235

SEP-DEC 28 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.50	.49	.49	.48	.47	.46	.44	.43	.42	.40	.39	.37	.35	.34	.32	.30	.29	.27	.26	.25	.23	.23	.22	.21
	676	667	658	647	636	623	609	593	576	557	538	517	491	469	447	424	403	383	364	347	331	319	309	302
15	.55	.54	.53	.52	.51	.50	.49	.48	.46	.45	.43	.42	.40	.38	.36	.35	.33	.32	.30	.29	.28	.27	.26	.26
	741	732	723	713	701	688	673	657	640	621	601	580	554	531	509	487	465	445	426	409	394	382	373	366
30	.60	.59	.58	.57	.56	.55	.54	.52	.51	.49	.48	.46	.44	.42	.41	.39	.37	.36	.34	.33	.32	.31	.31	.30
	804	795	786	775	763	750	735	719	701	682	662	640	614	591	568	546	525	504	486	469	455	443	434	428
45	.64	.63	.62	.61	.60	.59	.58	.57	.55	.54	.52	.50	.48	.46	.45	.43	.41	.40	.38	.37	.36	.35	.35	.34
	863	854	845	834	822	808	793	777	759	739	719	697	670	647	625	602	581	561	542	525	512	500	492	486
0900	.68	.67	.66	.66	.64	.63	.62	.60	.59	.57	.56	.54	.52	.50	.48	.47	.45	.44	.42	.41	.40	.39	.39	.38
	919	911	901	890	877	864	848	831	813	793	772	750	723	700	677	655	633	613	595	579	565	554	546	542
15	.72	.71	.70	.69	.68	.67	.66	.64	.63	.61	.59	.58	.55	.54	.52	.50	.49	.47	.46	.45	.44	.43	.42	.42
	972	963	953	942	929	915	899	882	863	843	821	799	772	749	726	704	682	663	645	629	616	605	598	594
30	.76	.75	.74	.73	.72	.70	.69	.68	.66	.64	.63	.61	.59	.57	.55	.53	.52	.50	.49	.48	.47	.46	.46	.45
	*020	*011	*001	990	977	962	946	928	909	888	867	844	817	794	771	748	727	708	690	675	662	652	645	642
45	.79	.78	.77	.76	.75	.74	.72	.71	.69	.67	.66	.64	.62	.60	.58	.56	.55	.53	.52	.51	.50	.49	.49	.49
	*065	*056	*045	*034	*020	*005	988	970	951	930	908	885	857	834	811	789	768	749	732	717	704	695	689	686
1000	.82	.81	.80	.79	.78	.76	.75	.73	.72	.70	.68	.66	.64	.62	.61	.59	.57	.56	.55	.53	.53	.52	.52	.51
	*105	*096	*085	*073	*059	*044	*027	*008	988	967	945	922	894	870	847	825	805	786	769	755	743	734	729	727
15	.85	.84	.83	.82	.80	.79	.77	.76	.74	.72	.70	.69	.66	.65	.63	.61	.60	.58	.57	.56	.55	.54	.54	.54
	*141	*132	*121	*108	*094	*078	*060	*041	*021	999	977	953	925	902	879	857	837	818	802	788	777	769	764	763
30	.87	.86	.85	.84	.82	.81	.79	.78	.76	.74	.72	.71	.68	.67	.65	.63	.62	.60	.59	.58	.57	.57	.56	.56
	*173	*163	*151	*138	*123	*107	*089	*069	*049	*027	*004	981	952	929	906	885	865	846	830	817	807	799	795	794
45	.89	.88	.87	.86	.84	.83	.81	.80	.78	.76	.74	.72	.70	.68	.66	.65	.63	.62	.61	.60	.59	.58	.58	.58
	*200	*189	*177	*164	*148	*131	*113	*093	*072	*049	*026	*003	974	951	929	907	887	870	854	841	832	825	822	822

SEP-DEC 28 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.91	.90	.88	.87	.86	.84	.83	.81	.79	.77	.75	.73	.71	.69	.68	.66	.64	.63	.62	.61	.60	.60	.60	.60
	*222	*211	*198	*184	*168	*151	*132	*111	*090	*067	*044	*020	992	968	946	925	906	888	873	861	852	846	843	844
15	.92	.91	.90	.88	.87	.85	.84	.82	.80	.78	.76	.74	.72	.70	.68	.67	.65	.64	.63	.62	.61	.61	.61	.61
	*239	*227	*214	*200	*183	*165	*146	*125	*103	*080	*056	*032	*004	981	959	938	919	902	888	876	868	862	860	862
30	.93	.92	.90	.89	.88	.86	.84	.82	.81	.79	.77	.75	.73	.71	.69	.67	.66	.65	.64	.63	.62	.62	.62	.62
	*251	*239	*225	*210	*193	*175	*154	*133	*111	*087	*063	*040	*011	988	966	946	927	911	897	885	878	874	873	875
45	.93	.92	.91	.89	.88	.86	.85	.83	.81	.79	.77	.75	.73	.71	.69	.68	.66	.65	.64	.63	.63	.62	.62	.62
	*258	*246	*231	*215	*198	*179	*158	*136	*113	*090	*066	*042	*013	990	969	949	930	915	901	891	884	880	880	883
1200	.94	.92	.91	.89	.88	.86	.84	.83	.81	.79	.77	.75	.72	.71	.69	.67	.66	.65	.64	.63	.63	.62	.62	.63
	*260	*247	*232	*216	*197	*178	*156	*134	*111	*087	*063	*039	*010	988	966	946	929	914	901	891	885	882	883	886
15	.93	.92	.91	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.69	.67	.66	.64	.64	.63	.62	.62	.62	.63
	*257	*244	*228	*211	*192	*171	*150	*127	*103	*079	*055	*030	*002	980	959	939	922	907	896	887	881	879	880	885
30	.93	.91	.90	.88	.87	.85	.83	.81	.79	.77	.75	.73	.71	.69	.68	.66	.65	.64	.63	.62	.62	.62	.62	.62
	*249	*235	*219	*201	*181	*160	*138	*115	*091	*066	*042	*017	989	967	946	927	911	897	885	877	872	871	873	878
45	.92	.90	.89	.97	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.65	.64	.63	.62	.61	.61	.61	.61	.61
	*236	*221	*204	*186	*165	*144	*121	*097	*073	*048	*023	999	971	949	929	910	894	881	870	863	859	858	861	867
1300	.90	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.65	.63	.62	.61	.60	.60	.59	.59	.60	.60
	*218	*202	*185	*166	*145	*122	*099	*075	*050	*025	*000	976	948	926	906	888	873	860	850	844	840	840	844	850
15	.89	.87	.86	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.63	.61	.60	.59	.59	.58	.58	.58	.58	.59
	*195	*179	*161	*140	*119	*096	*072	*047	*022	997	972	948	920	899	879	862	847	835	826	820	817	818	822	829
30	.87	.85	.84	.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.62	.61	.59	.58	.57	.57	.56	.56	.56	.56	.57
	*168	*150	*131	*111	*088	*065	*040	*015	990	965	940	915	888	867	848	831	816	805	796	791	789	791	795	804
45	.84	.83	.81	.79	.77	.75	.73	.71	.69	.67	.65	.63	.61	.59	.58	.57	.56	.55	.54	.54	.54	.54	.54	.55
	*135	*117	*098	*076	*053	*029	*004	979	953	927	902	878	851	830	811	795	781	770	763	758	757	759	765	773

SEP-DEC 28 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.82	.80	.78	.76	.74	.72	.70	.68	.66	.64	.62	.60	.58	.57	.55	.54	.53	.52	.51	.51	.51	.51	.52	.52
		*099	*080	*059	*037	*013	989	963	937	911	886	861	837	810	789	771	755	742	732	724	721	720	723	729	739
15		.78	.77	.75	.73	.71	.69	.67	.65	.63	.61	.59	.57	.55	.53	.52	.51	.50	.49	.48	.48	.48	.48	.49	.49
		*057	*038	*016	994	969	944	918	892	866	840	815	791	764	744	726	711	698	689	682	679	679	683	690	700
30		.75	.73	.72	.70	.68	.66	.63	.61	.59	.57	.55	.53	.51	.50	.48	.47	.46	.46	.45	.45	.45	.45	.46	.46
		*012	992	970	946	921	895	869	842	816	790	765	741	714	695	677	662	651	642	636	633	634	638	646	656
45		.71	.70	.68	.66	.64	.62	.60	.57	.55	.53	.51	.49	.47	.46	.45	.44	.43	.42	.42	.41	.41	.42	.42	.43
		963	941	919	894	869	842	816	789	762	736	711	687	661	642	625	610	599	591	586	584	586	590	598	609
1500		.67	.66	.64	.62	.60	.58	.55	.53	.51	.49	.47	.45	.43	.42	.41	.40	.39	.38	.38	.38	.38	.38	.39	.40
		909	888	864	839	813	786	759	731	704	678	653	630	604	585	569	555	544	537	532	531	533	539	547	559
15		.63	.61	.59	.57	.55	.53	.51	.49	.47	.45	.43	.41	.39	.38	.36	.35	.35	.34	.34	.34	.34	.34	.35	.36
		853	830	806	780	753	726	698	671	643	617	592	569	544	525	509	496	486	479	475	475	477	483	492	504
30		.59	.57	.55	.53	.51	.49	.46	.44	.42	.40	.38	.36	.34	.33	.32	.31	.30	.30	.29	.29	.30	.30	.31	.32
		793	769	744	718	691	663	635	607	579	553	528	505	480	462	447	434	425	418	415	415	418	425	434	447
45		.54	.52	.50	.48	.46	.44	.41	.39	.37	.35	.33	.32	.30	.28	.27	.26	.26	.25	.25	.25	.25	.26	.26	.27
		730	705	680	653	625	597	568	540	513	486	462	439	414	396	381	369	361	355	352	353	357	363	373	386
1600		.49	.47	.45	.43	.41	.39	.36	.34	.32	.30	.28	.27	.25	.24	.22	.22	.21	.21	.20	.20	.21	.21	.22	.23
		664	639	612	585	556	528	499	471	443	417	392	370	345	328	314	302	294	289	287	288	292	299	310	323
15		.44	.42	.40	.38	.36	.33	.31	.29	.27	.25	.23	.22	.20	.18	.17	.17	.16	.16	.16	.16	.16	.17	.17	.18
		593	570	543	515	486	456	427	399	371	345	321	298	275	258	244	233	225	220	219	220	225	233	243	257
30		.39	.37	.35	.33	.30	.28	.26	.24	.22	.20	.18	.16	.15	.13	.12	.12	.11	.11	.11	.11	.11	.12	.12	.13
		525	498	471	442	413	383	354	325	298	271	247	225	202	185	172	161	154	150	149	151	156	164	175	188
45		.34	.32	.29	.27	.25	.23	.20	.18	.16	.14	.12	.11	.09	.08	.07	.06	.06	.06	.06	.06	.06	.07	.07	.08
		452	425	397	368	338	308	279	250	222	196	172	150	127	111	098	088	081	078	077	080	085	094	105	118

SEP-DEC 28 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.28	.26	.24	.22	.19	.17	.15	.13	.11	.09	.07	.05	.04	.03	.02	.01	.01	.00	.00	.01	.01	.02	.02	.03
	378	351	322	292	262	232	202	173	145	119	095	074	051	036	023	014	008	004	004	007	013	022	033	047
15	.22	.20	.18	.16	.14	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	303	275	245	215	184	154	124	095	068	042	018	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.15	.12	.10	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	226	198	168	137	106	076	046	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.11	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	149	120	090	059	028	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	072	042	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 28 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	068	106
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	069	106
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	070	108
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	033	073	110
0100	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	036	076	114
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	081	118
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	046	086	124
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	053	093	130
0200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	018	060	100	137
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	068	108	145
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	035	077	117	154
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	044	086	126	164

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	056	097	137	174
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	022	066	108	148	185
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	034	078	120	159	197
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	.13	.16
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	045	090	132	172	209
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.11	.14	.16
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	059	103	145	184	221
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.15	.17
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	073	116	158	198	235
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.16	.18
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	086	130	172	211	248
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.11	.14	.17	.19
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	055	101	145	186	225	262
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.09	.12	.15	.18	.21
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	014	070	115	159	201	240	276
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.10	.13	.16	.19	.22
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	085	130	174	215	254	291
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.11	.14	.17	.20	.23
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	044	100	145	189	230	269	306
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.09	.12	.15	.18	.21	.24
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	012	060	116	161	204	245	284	320

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.10	.13	.16	.19	.22	.25
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	075	131	175	219	261	299	335
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.11	.14	.17	.20	.23	.26
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	043	091	147	192	235	276	314	350
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.12	.15	.18	.21	.24	.27
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	059	106	162	207	250	291	329	365
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.13	.16	.20	.23	.25	.28
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	074	122	177	222	265	306	344	379
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	.14	.17	.21	.24	.27	.29
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	090	137	193	237	280	320	358	394
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.11	.15	.19	.22	.25	.28	.30
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	008	057	105	152	207	252	294	335	373	408
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.16	.20	.23	.26	.29	.31
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	023	071	119	167	222	265	309	349	387	422
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.17	.21	.24	.27	.30	.32
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	038	086	134	181	236	280	323	363	400	435
0800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.11	.14	.18	.22	.25	.28	.31	.33
	000	000	000	000	000	000	000	000	000	000	000	000	000	004	052	100	148	195	250	293	336	376	413	448
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.08	.12	.15	.19	.23	.26	.29	.32	.34
	000	000	000	000	000	000	000	000	000	000	000	000	000	017	066	114	161	208	263	307	349	389	426	461
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.09	.13	.16	.20	.23	.27	.30	.32	.35
	000	000	000	000	000	000	000	000	000	000	000	000	000	031	079	127	174	221	276	319	361	401	438	473
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	.14	.17	.21	.24	.27	.30	.33	.36
	000	000	000	000	000	000	000	000	000	000	000	000	000	043	091	139	187	233	288	331	373	413	450	484

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.18	.22	.25	.28	.31	.34	.37
	000	000	000	000	000	000	000	000	000	000	000	000	006	055	103	151	198	245	299	342	384	424	461	495
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.08	.12	.15	.19	.23	.26	.29	.32	.35	.37
	000	000	000	000	000	000	000	000	000	000	000	000	019	066	114	162	209	256	310	353	395	434	471	505
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.06	.09	.13	.16	.19	.23	.27	.30	.33	.36	.38
	000	000	000	000	000	000	000	000	000	000	000	000	030	077	125	172	220	266	320	363	404	443	480	514
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.17	.20	.24	.27	.30	.33	.36	.39
	000	000	000	000	000	000	000	000	000	000	000	000	039	087	134	182	229	275	329	372	413	452	489	523
1000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.14	.17	.21	.25	.28	.31	.34	.37	.39
	000	000	000	000	000	000	000	000	000	000	000	000	048	096	143	191	238	284	337	380	421	460	496	530
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.08	.11	.14	.18	.21	.25	.28	.32	.34	.37	.40
	000	000	000	000	000	000	000	000	000	000	000	000	057	104	151	199	246	291	345	388	429	467	503	537
30	00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.08	.11	.15	.18	.22	.26	.29	.32	.35	.38	.40
	000	000	000	000	000	000	000	000	000	000	000	000	064	111	158	206	252	298	351	394	435	473	509	543
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.08	.12	.15	.19	.22	.26	.29	.32	.35	.38	.41
	000	000	000	000	000	000	000	000	000	000	000	000	070	117	165	212	258	304	357	400	440	479	515	548
1100	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.12	.16	.19	.23	.26	.30	.33	.36	.38	.41
	000	000	000	000	000	000	000	000	000	000	000	002	075	122	170	217	263	309	362	404	445	483	519	552
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.09	.13	.16	.19	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	006	080	127	174	221	267	313	366	408	448	486	522	555
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.09	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	010	083	130	177	224	270	316	368	410	451	489	524	558
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.10	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	012	085	132	179	226	272	317	370	412	452	490	526	559

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M-*2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.10	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	013	087	134	180	227	273	318	371	413	453	490	526	559
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.10	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	014	087	134	181	227	273	318	370	412	452	490	525	559
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.10	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	013	086	133	180	226	272	317	369	411	451	488	524	557
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.09	.13	.16	.20	.23	.27	.30	.33	.36	.39	.41
	000	000	000	000	000	000	000	000	000	000	000	012	085	131	178	224	270	315	367	408	448	486	521	554
1300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.09	.13	.16	.19	.23	.27	.30	.33	.36	.38	.41
	000	000	000	000	000	000	000	000	000	000	000	009	082	126	175	221	267	311	363	405	445	482	518	551
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.06	.09	.12	.16	.19	.22	.26	.29	.32	.35	.38	.41
	000	000	000	000	000	000	000	000	000	000	000	005	078	124	171	217	263	307	359	401	440	478	513	546
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.09	.12	.15	.19	.22	.26	.29	.32	.35	.38	.40
	000	000	000	000	000	000	000	000	000	000	000	001	073	120	166	212	257	302	354	395	435	472	508	541
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.05	.08	.12	.15	.18	.22	.25	.29	.32	.34	.37	.40
	000	000	000	000	000	000	000	000	000	000	000	000	068	114	160	206	251	296	348	389	429	466	502	535
1400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.08	.11	.14	.18	.21	.25	.28	.31	.34	.37	.39
	000	000	000	000	000	000	000	000	000	000	000	000	061	107	153	199	244	289	340	382	421	459	494	527
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.11	.14	.17	.21	.24	.27	.30	.33	.36	.39
	000	000	000	000	000	000	000	000	000	000	000	000	053	099	145	191	237	281	332	374	413	451	486	519
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.07	.10	.13	.17	.20	.24	.27	.30	.33	.35	.38
	000	000	000	000	000	000	000	000	000	000	000	000	045	091	137	183	228	272	324	365	404	442	477	511
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.13	.16	.19	.23	.26	.29	.32	.35	.37
	000	000	000	000	000	000	000	000	000	000	000	000	036	081	127	173	218	262	314	355	395	432	468	501

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.15	.18	.22	.25	.28	.31	.34	.36
	000	000	000	000	000	000	000	000	000	000	000	000	025	071	117	163	208	252	304	345	384	422	458	491
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.11	.14	.18	.21	.25	.27	.30	.33	.36
	000	000	000	000	000	000	000	000	000	000	000	000	015	060	106	152	197	241	292	334	373	411	446	480
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.17	.21	.24	.27	.29	.32	.35
	000	000	000	000	000	000	000	000	000	000	000	000	003	049	094	140	185	229	281	322	361	399	435	468
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.13	.16	.20	.23	.26	.29	.31	.34
	000	000	000	000	000	000	000	000	000	000	000	000	000	036	082	128	172	217	268	309	349	387	423	456
1600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.12	.15	.19	.22	.25	.28	.30	.33
	000	000	000	000	000	000	000	000	000	000	000	000	000	023	069	114	159	204	255	295	336	374	410	443
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.18	.21	.24	.27	.29	.32
	000	000	000	000	000	000	000	000	000	000	000	000	000	010	055	101	146	190	242	283	323	361	396	430
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.17	.20	.23	.26	.28	.31
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	087	132	176	228	269	309	347	383	416
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.16	.19	.22	.25	.27	.30
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	072	117	161	213	255	295	333	369	403
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.15	.18	.21	.23	.26	.29
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	012	058	102	147	198	240	280	318	354	388
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.17	.20	.22	.25	.28
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	042	087	132	183	225	265	303	340	374
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.15	.18	.21	.24	.27
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	027	072	116	168	210	250	288	325	359
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.23	.26
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	056	101	153	195	235	273	310	344

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

| MST | DATE | | |

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
2100	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	055	095	134	170
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	002	044	085	124	160
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.08	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	035	075	114	151
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	067	105	142
2200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	018	059	098	134
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	052	091	128
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	045	085	122
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	040	080	117
2300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	036	075	112
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	033	072	109
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	070	107
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	068	106

JAN-APR 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0000		.10	.13	.15	.17	.19	.20	.22	.22	.23	.23	.23	.23	.22	.21	.20	.19	.17	.15	.13	.10	.08	.05	.02	.00
		140	172	201	227	250	268	286	297	304	308	307	303	295	283	268	249	227	202	168	135	101	064	025	000
15		.11	.13	.15	.17	.19	.20	.22	.22	.23	.23	.23	.23	.22	.21	.20	.19	.17	.15	.13	.10	.08	.05	.02	.00
		141	173	202	228	250	269	287	298	305	308	308	303	295	284	268	250	227	202	168	135	102	065	026	000
30		.11	.13	.15	.17	.19	.20	.22	.23	.23	.23	.23	.23	.22	.22	.20	.19	.17	.15	.13	.10	.08	.05	.02	.00
		143	175	204	229	252	271	288	299	306	309	309	305	296	285	269	251	228	203	169	137	103	066	027	000
45		.11	.13	.15	.17	.19	.21	.22	.23	.23	.24	.24	.23	.23	.22	.21	.19	.17	.15	.13	.10	.08	.05	.02	.00
		145	177	206	232	254	273	291	302	308	312	311	307	298	287	271	252	230	205	171	139	105	068	029	000
0100		.11	.14	.16	.18	.19	.21	.22	.23	.24	.24	.24	.23	.23	.22	.21	.19	.18	.16	.13	.11	.08	.05	.02	.00
		149	181	210	236	258	276	294	305	312	315	314	309	301	289	274	255	233	208	174	142	108	071	033	000
15		.11	.14	.16	.18	.20	.21	.22	.23	.24	.24	.24	.24	.23	.22	.21	.20	.18	.16	.13	.11	.08	.06	.03	.00
		153	185	214	240	262	281	298	309	316	319	318	313	305	293	278	259	237	212	177	145	112	075	037	000
30		.12	.14	.16	.18	.20	.22	.23	.24	.24	.24	.24	.24	.23	.23	.21	.20	.18	.16	.14	.11	.09	.06	.03	.00
		159	191	220	245	267	286	303	314	320	323	323	318	310	298	282	264	242	216	182	151	117	080	042	002
45		.12	.15	.17	.19	.21	.22	.23	.24	.25	.25	.25	.24	.24	.23	.22	.20	.19	.17	.14	.12	.09	.06	.04	.01
		165	197	226	251	273	292	309	320	326	329	328	324	315	303	288	269	247	222	188	155	122	086	048	008
0200		.13	.15	.17	.19	.21	.22	.24	.25	.25	.25	.25	.25	.24	.23	.22	.21	.19	.17	.15	.12	.10	.07	.04	.01
		172	204	233	258	280	299	316	326	333	336	335	330	322	310	294	275	253	228	194	163	129	093	055	015
15		.13	.16	.18	.20	.22	.23	.24	.25	.26	.26	.26	.25	.25	.24	.23	.21	.20	.18	.15	.13	.10	.08	.05	.02
		180	212	241	266	288	306	323	334	340	343	342	337	329	317	301	282	260	235	202	170	137	101	063	023
30		.14	.16	.19	.21	.22	.24	.25	.26	.26	.27	.26	.26	.25	.25	.23	.22	.20	.18	.16	.13	.11	.08	.05	.02
		189	221	249	274	296	314	332	342	348	351	350	345	336	324	309	290	268	243	210	179	145	109	071	032
45		.15	.17	.19	.21	.23	.24	.26	.26	.27	.27	.27	.27	.26	.25	.24	.23	.21	.19	.16	.14	.12	.09	.06	.03
		198	230	259	284	305	324	340	351	357	359	358	353	345	333	318	299	277	252	218	188	154	118	081	041

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0300		.16	.18	.20	.22	.24	.25	.26	.27	.28	.28	.28	.27	.27	.26	.25	.23	.22	.20	.17	.15	.12	.10	.07	.04
		209	240	269	294	315	333	350	360	366	369	368	363	354	342	327	308	286	262	228	197	164	128	091	052
15		.16	.19	.21	.23	.24	.26	.27	.28	.28	.29	.29	.28	.28	.27	.25	.24	.22	.21	.18	.16	.13	.10	.08	.05
		219	251	279	304	326	344	360	370	376	379	378	373	364	352	337	318	297	272	238	208	174	139	102	062
30		.17	.20	.22	.24	.25	.27	.28	.29	.29	.29	.29	.29	.28	.27	.26	.25	.23	.21	.19	.16	.14	.11	.08	.06
		231	262	291	315	337	355	371	381	387	389	388	383	375	363	348	329	307	283	249	213	186	150	113	074
45		.18	.20	.23	.25	.26	.28	.29	.30	.30	.30	.30	.30	.29	.28	.27	.26	.24	.22	.20	.17	.15	.12	.09	.06
		243	274	302	327	348	366	383	392	398	401	399	394	386	374	359	340	319	294	261	230	197	162	125	086
0400		.19	.21	.24	.25	.27	.28	.30	.30	.31	.31	.31	.31	.30	.29	.28	.27	.25	.23	.21	.18	.16	.13	.10	.07
		256	287	315	339	361	378	395	404	410	412	411	406	398	386	370	352	330	306	273	242	210	175	138	099
15		.20	.22	.25	.26	.28	.29	.31	.31	.32	.32	.32	.32	.31	.30	.29	.28	.26	.24	.21	.19	.17	.14	.11	.08
		269	300	328	352	373	391	407	416	422	425	423	418	410	398	383	364	343	318	285	255	223	188	151	112
30		.21	.23	.25	.27	.29	.30	.32	.32	.33	.33	.33	.33	.32	.31	.30	.28	.27	.25	.22	.20	.18	.15	.12	.09
		282	313	341	365	386	404	420	429	435	437	436	431	422	410	395	377	355	331	298	263	236	201	165	126
45		.22	.24	.27	.28	.30	.31	.33	.33	.34	.34	.34	.34	.33	.32	.31	.29	.28	.26	.23	.21	.19	.16	.13	.10
		296	327	354	379	400	417	433	442	448	450	449	444	435	423	408	390	369	344	312	282	249	215	178	140
0500		.23	.25	.28	.29	.31	.32	.34	.34	.35	.35	.35	.35	.34	.33	.32	.30	.29	.27	.25	.22	.20	.17	.14	.12
		310	341	368	392	413	430	446	455	461	463	462	457	448	436	421	403	382	358	325	293	263	229	193	155
15		.24	.26	.29	.30	.32	.33	.35	.35	.36	.36	.36	.36	.35	.34	.33	.31	.30	.28	.26	.23	.21	.18	.16	.13
		325	355	382	406	427	444	460	469	475	477	475	470	462	450	435	417	396	372	339	310	278	243	207	169
30		.25	.28	.30	.32	.33	.34	.36	.36	.37	.37	.37	.37	.36	.35	.34	.33	.31	.29	.27	.24	.22	.19	.17	.14
		339	369	397	421	441	458	474	483	488	490	489	484	475	464	449	431	410	386	354	324	292	258	222	184
45		.26	.29	.31	.33	.34	.35	.37	.37	.38	.38	.38	.38	.37	.36	.35	.34	.32	.30	.28	.25	.23	.20	.18	.15
		354	384	411	435	455	472	488	497	502	504	502	497	489	477	463	445	424	400	368	338	307	273	237	199

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.27	.30	.32	.34	.35	.37	.38	.38	.39	.39	.39	.39	.38	.37	.36	.35	.33	.31	.29	.27	.24	.22	.19	.16
	368	399	425	449	469	486	501	510	516	518	516	511	503	491	477	459	438	414	382	353	321	288	252	214
15	.29	.31	.33	.35	.36	.38	.39	.40	.40	.40	.40	.40	.39	.38	.37	.36	.34	.32	.30	.28	.25	.23	.20	.17
	383	413	440	463	483	500	515	524	530	532	530	525	517	505	491	473	452	429	397	368	336	302	267	229
30	.30	.32	.34	.36	.37	.39	.40	.41	.41	.41	.41	.41	.40	.39	.38	.37	.35	.33	.31	.29	.26	.24	.21	.18
	398	428	454	478	498	514	529	538	543	545	544	539	531	519	504	487	466	443	411	382	351	317	282	244
45	.31	.33	.35	.37	.38	.40	.41	.42	.42	.42	.42	.42	.41	.40	.39	.38	.36	.34	.32	.30	.27	.25	.22	.19
	412	442	468	492	511	528	543	552	557	559	557	553	544	533	518	501	480	457	426	397	365	332	296	259
0700	.32	.34	.36	.38	.39	.41	.42	.43	.43	.43	.43	.43	.42	.41	.40	.39	.37	.35	.33	.31	.28	.26	.23	.20
	426	456	482	505	525	542	557	565	571	572	571	566	558	547	532	515	494	471	440	411	380	346	311	274
15	.33	.35	.37	.39	.40	.42	.43	.44	.44	.44	.44	.44	.43	.42	.41	.40	.38	.37	.34	.32	.30	.27	.24	.21
	440	470	496	519	539	555	570	579	584	586	584	579	571	560	546	528	508	485	454	425	394	361	325	288
30	.34	.36	.38	.40	.41	.43	.44	.45	.45	.45	.45	.45	.44	.43	.42	.41	.39	.38	.35	.33	.31	.28	.25	.23
	454	483	510	532	552	568	583	592	597	599	597	592	584	573	559	541	521	498	467	439	408	375	339	302
45	.35	.37	.39	.41	.42	.44	.45	.46	.46	.46	.46	.46	.45	.44	.43	.42	.40	.39	.36	.34	.32	.29	.26	.24
	467	497	523	545	565	581	596	604	609	611	610	605	597	586	572	554	534	512	481	452	421	388	353	316
0800	.36	.38	.40	.42	.43	.45	.46	.46	.47	.47	.47	.47	.46	.45	.44	.43	.41	.40	.37	.35	.33	.30	.27	.25
	480	509	535	558	577	593	608	617	622	624	622	617	609	598	584	567	547	524	494	465	434	401	366	329
15	.37	.39	.41	.43	.44	.45	.47	.47	.48	.48	.48	.48	.47	.46	.45	.44	.42	.40	.38	.36	.34	.31	.28	.26
	493	522	547	570	589	605	620	628	633	635	634	629	621	610	596	579	559	537	506	478	447	414	379	342
30	.38	.40	.42	.44	.45	.46	.48	.48	.49	.49	.49	.48	.48	.47	.46	.45	.43	.41	.39	.37	.34	.32	.29	.26
	504	533	559	581	601	616	631	640	645	647	645	641	633	622	608	591	571	548	518	490	459	426	391	355
45	.38	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.49	.49	.48	.47	.45	.44	.42	.40	.38	.35	.33	.30	.27
	516	544	570	592	611	627	642	650	655	657	656	651	644	633	619	602	582	560	529	501	471	438	403	366

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.39	.41	.43	.45	.47	.48	.49	.50	.50	.50	.50	.50	.49	.49	.48	.46	.45	.43	.41	.38	.35	.34	.31	.28
	526	555	580	602	622	637	652	660	666	667	666	662	654	643	629	613	593	571	540	512	482	449	414	377
15	.40	.42	.44	.46	.47	.49	.50	.50	.51	.51	.51	.51	.50	.49	.46	.47	.45	.44	.41	.38	.37	.34	.32	.29
	536	565	590	612	631	647	661	670	675	677	676	671	664	653	639	622	603	581	550	522	492	459	424	388
30	.41	.43	.45	.47	.48	.49	.50	.51	.52	.52	.52	.51	.51	.50	.49	.48	.46	.44	.42	.40	.38	.35	.32	.30
	545	574	599	621	640	656	670	679	684	686	685	680	673	662	648	632	612	590	560	532	501	469	434	397
45	.41	.43	.45	.47	.49	.50	.51	.52	.52	.52	.52	.52	.51	.51	.50	.48	.47	.45	.43	.41	.38	.36	.33	.30
	554	582	607	629	648	664	678	687	692	694	693	688	681	670	657	640	621	599	568	541	510	478	443	406
1000	.42	.44	.46	.48	.49	.50	.52	.52	.53	.53	.53	.53	.52	.51	.50	.49	.47	.46	.43	.41	.39	.36	.34	.31
	561	589	614	636	655	671	685	694	699	701	700	696	688	678	664	648	629	606	576	548	518	486	451	414
15	.42	.44	.46	.48	.50	.51	.52	.53	.53	.53	.53	.53	.53	.52	.51	.49	.48	.46	.44	.42	.39	.37	.34	.31
	568	596	621	643	662	677	692	700	706	708	707	703	695	685	671	655	636	614	584	556	525	493	458	421
30	.43	.45	.47	.49	.50	.51	.53	.53	.54	.54	.54	.54	.53	.52	.51	.50	.48	.47	.44	.42	.40	.37	.35	.32
	574	602	627	649	667	683	698	706	711	714	713	708	701	691	677	661	642	620	590	562	532	499	464	427
45	.43	.45	.47	.49	.50	.52	.53	.54	.54	.54	.54	.54	.53	.53	.52	.50	.49	.47	.45	.43	.40	.38	.35	.32
	579	607	632	654	672	688	702	711	716	719	718	713	706	696	683	666	647	625	595	568	537	505	470	433
1100	.43	.46	.47	.49	.51	.52	.53	.54	.54	.55	.55	.54	.54	.53	.52	.51	.49	.47	.45	.43	.41	.38	.35	.33
	583	611	636	657	676	692	705	715	720	723	722	718	711	700	687	671	652	630	600	572	542	509	474	437
15	.44	.46	.48	.49	.51	.52	.53	.54	.55	.55	.55	.54	.54	.53	.52	.51	.49	.48	.45	.43	.41	.38	.36	.33
	586	614	639	660	679	695	709	718	724	726	725	721	714	704	691	674	655	633	604	576	545	513	478	441
30	.44	.46	.48	.50	.51	.52	.54	.54	.55	.55	.55	.55	.54	.53	.52	.51	.50	.48	.46	.43	.41	.39	.36	.33
	588	616	641	663	681	697	712	720	726	728	727	723	716	706	693	677	658	636	606	578	548	515	480	443
45	.44	.46	.48	.50	.51	.52	.54	.54	.55	.55	.55	.55	.54	54	.52	.51	.50	.48	.46	.44	.41	.39	.36	.33
	589	617	642	664	682	698	713	722	727	730	729	725	718	708	695	679	660	638	608	580	550	517	482	445

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.44	.46	.48	.50	.51	.52	.54	.54	.55	.55	.55	.55	.54	.54	.53	.51	.50	.48	.46	.44	.41	.39	.36	.33
	590	617	642	664	683	698	713	722	728	730	729	726	719	709	696	680	661	639	609	581	551	518	483	445
15	.44	.46	.48	.50	.51	.52	.54	.54	.55	.55	.55	.55	.54	.54	.53	.51	.50	.48	.46	.44	.41	.39	.36	.33
	589	617	641	663	682	698	713	722	727	730	729	725	719	709	696	680	661	639	609	581	550	517	482	445
30	.44	.46	.48	.50	.51	.52	.54	.54	.55	.55	.55	.55	.54	.53	.52	.51	.50	.48	.46	.44	.41	.39	.36	.33
	587	615	640	662	680	696	711	720	726	728	728	724	717	708	695	679	660	638	608	580	549	516	481	443
45	.43	.46	.48	.49	.51	.52	.53	.54	.55	.55	.55	.55	.54	.53	.52	.51	.50	.48	.46	.43	.41	.38	.36	.33
	585	612	637	659	678	694	709	718	724	726	726	722	715	706	693	677	658	636	606	578	547	514	479	441
1300	.43	.45	.47	.49	.51	.52	.53	.54	.54	.55	.55	.54	.54	.53	.52	.51	.49	.48	.45	.43	.41	.38	.35	.33
	581	609	634	656	675	690	705	715	720	723	723	719	713	703	690	674	655	633	603	575	544	511	475	438
15	.43	.45	.47	.49	.50	.52	.53	.54	.54	.54	.54	.54	.54	.53	.52	.51	.49	.47	.45	.43	.40	.38	.35	.32
	577	604	629	651	670	686	701	710	716	719	719	715	709	699	686	670	651	629	599	571	540	507	471	433
30	.42	.45	.47	.48	.50	.51	.52	.53	.54	.54	.54	.54	.53	.52	.51	.50	.49	.47	.45	.43	.40	.38	.35	.32
	571	599	624	646	665	681	696	706	712	715	714	711	704	694	682	666	647	625	594	563	535	502	466	428
45	.42	.44	.46	.48	.49	.51	.52	.53	.53	.54	.54	.53	.53	.52	.51	.50	.48	.47	.44	.42	.40	.37	.34	.31
	565	593	618	640	659	675	690	700	706	709	709	705	699	689	676	660	641	619	589	560	529	496	460	422
1400	.41	.44	.46	.47	.49	.50	.51	.52	.53	.53	.53	.53	.52	.52	.51	.49	.48	.46	.44	.42	.39	.37	.34	.31
	558	586	611	633	652	668	684	693	699	702	702	699	692	683	670	654	635	613	582	554	523	489	453	415
15	.41	.43	.45	.47	.48	.50	.51	.52	.52	.53	.53	.52	.52	.51	.50	.49	.47	.46	.43	.41	.39	.36	.33	.30
	550	578	603	625	645	661	676	686	692	695	695	692	685	676	663	647	628	605	575	547	515	482	445	407
30	.40	.42	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52	.51	.50	.49	.48	.47	.45	.43	.40	.38	.35	.33	.30
	541	569	594	617	636	652	668	678	684	687	687	684	677	668	655	639	620	597	567	538	507	473	437	398
45	.40	.42	.44	.45	.47	.48	.50	.50	.51	.51	.51	.51	.51	.50	.49	.48	.46	.44	.42	.40	.37	.35	.32	.29
	532	560	585	607	627	643	659	669	675	679	679	675	669	659	646	630	611	589	558	529	498	464	427	389

DATE

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500	.39	.41	.43	.45	.46	.48	.49	.50	.50	.51	.51	.50	.50	.49	.48	.47	.45	.44	.41	.39	.37	.34	.31	.28
	521	550	575	597	617	634	650	659	666	669	669	666	660	650	637	621	602	579	548	520	488	454	417	378
15	.38	.40	.42	.44	.46	.47	.46	.49	.49	.50	.50	.50	.49	.48	.47	.46	.45	.43	.40	.38	.35	.33	.30	.27
	511	539	564	587	607	623	639	649	656	659	659	656	650	640	627	611	592	569	538	509	478	443	406	367
30	.37	.39	.41	.43	.45	.46	.47	.48	.49	.49	.49	.49	.48	.48	.47	.45	.44	.42	.40	.37	.35	.32	.29	.27
	499	527	553	576	596	612	628	638	645	648	649	645	639	629	616	600	581	558	527	498	466	432	395	356
45	.36	.38	.40	.42	.44	.45	.46	.47	.48	.48	.48	.48	.47	.47	.46	.44	.43	.41	.39	.37	.34	.31	.29	.26
	487	515	541	564	584	601	617	627	634	637	637	634	628	618	605	589	570	547	516	487	455	420	383	343
1600	.35	.38	.40	.41	.43	.44	.46	.46	.47	.47	.47	.47	.47	.46	.45	.44	.42	.40	.38	.36	.33	.30	.28	.25
	474	503	529	552	572	589	605	615	622	626	626	623	616	607	594	577	558	535	504	474	442	407	370	331
15	.34	.37	.39	.40	.42	.43	.45	.45	.46	.46	.46	.46	.46	.45	.44	.43	.41	.39	.37	.35	.32	.30	.27	.24
	461	490	516	539	559	576	593	603	610	613	614	611	604	594	581	565	545	523	491	462	429	394	357	317
30	.33	.36	.38	.39	.41	.42	.44	.44	.45	.45	.45	.45	.45	.44	.43	.42	.40	.38	.36	.34	.31	.29	.26	.23
	448	477	503	526	546	563	580	590	597	601	601	598	592	582	569	552	533	510	478	449	416	381	344	304
45	.32	.35	.37	.38	.40	.41	.43	.44	.44	.44	.44	.44	.44	.43	.42	.41	.39	.37	.35	.33	.30	.27	.25	.22
	434	463	489	512	533	550	567	577	584	588	588	585	579	569	556	539	519	496	465	435	403	367	330	290
1700	.31	.33	.36	.37	.39	.40	.42	.43	.43	.43	.43	.43	.43	.42	.41	.40	.38	.36	.34	.32	.29	.26	.24	.21
	420	449	475	499	519	537	553	564	571	575	575	572	566	556	543	526	506	483	451	421	389	353	315	275
15	.30	.32	.34	.36	.38	.39	.41	.41	.42	.42	.42	.42	.42	.41	.40	.39	.37	.35	.33	.31	.28	.25	.22	.19
	405	435	461	485	505	523	540	550	558	561	562	559	552	542	529	512	492	469	437	407	374	339	301	261
30	.29	.31	.33	.35	.37	.38	.40	.40	.41	.41	.41	.41	.41	.40	.39	.38	.36	.34	.32	.30	.27	.24	.21	.18
	391	420	447	471	491	509	526	537	544	548	548	545	539	529	515	498	478	455	423	393	360	324	286	246
45	.28	.30	.32	.34	.36	.37	.39	.39	.40	.40	.40	.40	.40	.39	.38	.37	.35	.33	.31	.28	.26	.23	.20	.17
	376	406	432	456	477	495	512	523	530	534	534	531	525	515	501	485	464	441	409	378	345	309	271	231

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1800	.27	.29	.31	.33	.35	.36	.38	.38	.39	.39	.39	.39	.39	.38	.37	.36	.34	.32	.30	.27	.25	.22	.19	.16
	362	391	418	442	463	481	498	509	516	520	521	518	511	501	487	470	450	427	394	364	331	295	256	216
15	.26	.28	.30	.32	.34	.35	.36	.37	.38	.38	.38	.38	.38	.37	.36	.34	.33	.31	.29	.25	.24	.21	.18	.15
	347	377	404	428	449	467	484	495	502	506	507	504	497	487	473	456	436	412	380	343	316	280	241	201
30	.25	.27	.29	.31	.33	.34	.35	.36	.37	.37	.37	.37	.37	.36	.35	.33	.32	.30	.27	.25	.23	.20	.17	.14
	332	362	389	414	435	453	470	481	489	493	493	490	483	473	459	442	422	398	365	335	301	265	226	186
45	.24	.26	.28	.30	.32	.33	.34	.35	.36	.36	.36	.36	.36	.35	.34	.32	.31	.29	.26	.24	.22	.19	.16	.13
	318	348	375	399	421	439	457	467	475	479	479	476	470	459	446	428	408	384	351	320	287	250	212	171
1900	.23	.25	.27	.29	.31	.32	.33	.34	.35	.35	.35	.35	.34	.34	.33	.31	.30	.28	.25	.23	.20	.18	.15	.12
	304	334	361	386	407	425	443	454	461	465	466	463	456	446	432	415	394	370	337	305	272	236	197	156
15	.22	.24	.26	.28	.30	.31	.32	.33	.34	.34	.34	.34	.33	.33	.32	.30	.29	.27	.24	.22	.19	.17	.14	.11
	290	320	347	372	394	412	430	441	448	452	453	449	443	432	418	401	380	356	323	292	258	222	183	142
30	.21	.23	.25	.27	.29	.30	.31	.32	.33	.33	.33	.33	.32	.32	.31	.29	.28	.26	.23	.21	.18	.16	.13	.10
	276	306	334	359	380	399	417	428	435	439	440	436	430	419	405	388	367	343	309	278	244	208	169	127
45	.20	.22	.24	.26	.28	.29	.30	.31	.32	.32	.32	.32	.32	.31	.30	.28	.27	.25	.22	.20	.17	.15	.12	.09
	263	293	321	346	368	386	404	415	423	427	427	424	417	406	392	375	354	329	296	265	231	194	155	114
2000	.19	.21	.23	.25	.27	.28	.30	.30	.31	.31	.31	.31	.31	.30	.29	.27	.26	.24	.21	.19	.16	.14	.11	.08
	250	280	308	333	355	374	392	403	410	414	415	411	405	394	380	362	341	317	283	252	218	181	142	100
15	.18	.20	.22	.24	.26	.27	.29	.30	.30	.30	.30	.30	.30	.29	.28	.26	.25	.23	.20	.18	.15	.13	.10	.07
	237	268	296	321	343	362	380	391	399	403	403	400	393	382	368	350	329	304	271	239	205	168	129	088
30	.17	.19	.21	.23	.25	.26	.28	.29	.29	.30	.30	.29	.29	.28	.27	.26	.24	.22	.19	.17	.14	.12	.09	.06
	226	256	285	310	332	351	369	380	387	391	392	388	381	370	356	338	317	292	259	227	193	156	117	075
45	.16	.18	.20	.22	.24	.26	.27	.28	.28	.29	.29	.29	.28	.27	.26	.25	.23	.21	.19	.16	.14	.11	.08	.05
	214	245	274	299	321	340	358	369	377	381	381	377	370	360	345	327	306	281	247	216	181	144	105	064

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
2100		.15	.18	.20	.22	.23	.25	.26	.27	.28	.28	.28	.28	.27	.26	.25	.24	.22	.20	.18	.15	.13	.10	.07	.04
		204	235	263	289	311	330	348	359	367	370	371	367	360	349	335	317	295	270	236	205	170	133	094	053
15		.14	.17	.19	.21	.23	.24	.25	.26	.27	.27	.27	.27	.27	.26	.25	.23	.22	.20	.17	.15	.12	.09	.06	.03
		194	225	254	279	301	320	338	350	357	361	361	358	350	339	325	307	285	260	226	195	160	123	084	042
30		.14	.16	.18	.20	.22	.23	.25	.26	.26	.27	.27	.26	.26	.25	.24	.22	.21	.19	.16	.14	.11	.09	.06	.02
		185	216	245	270	292	311	330	341	348	352	352	349	341	330	316	298	276	251	217	185	151	113	074	033
45		.13	.16	.18	.20	.21	.23	.24	.25	.26	.26	.26	.26	.25	.24	.23	.22	.20	.18	.16	.13	.11	.08	.05	.02
		176	208	236	262	284	303	321	333	340	344	344	340	333	322	307	289	267	242	208	176	142	105	065	024
2200		.13	.15	.17	.19	.21	.22	.24	.25	.25	.25	.25	.25	.25	.24	.23	.21	.20	.18	.15	.13	.10	.07	.04	.01
		169	200	229	255	277	296	314	325	333	337	337	333	326	314	300	281	259	234	200	168	134	097	057	016
15		.12	.14	.17	.19	.20	.22	.23	.24	.25	.25	.25	.25	.24	.23	.22	.21	.19	.17	.15	.12	.10	.07	.04	.01
		162	194	222	248	271	290	308	319	326	330	330	326	319	308	293	274	252	227	193	161	127	089	050	009
30		.12	.14	.16	.18	.20	.21	.23	.24	.24	.25	.25	.24	.24	.23	.22	.20	.19	.17	.14	.12	.09	.06	.03	.00
		156	188	217	242	265	284	302	313	321	324	324	320	313	301	287	268	246	221	187	155	120	083	044	002
45		.11	.14	.16	.18	.20	.21	.22	.23	.24	.24	.24	.24	.23	.22	.21	.20	.18	.16	.14	.11	.09	.06	.03	.00
		151	183	212	238	260	279	297	308	316	319	319	315	308	296	281	263	241	216	181	149	115	078	038	000
2300		.11	.13	.16	.18	.19	.21	.22	.23	.24	.24	.24	.24	.23	.22	.21	.20	.18	.16	.13	.11	.08	.06	.03	.00
		147	179	208	234	256	275	293	304	312	315	315	311	303	292	277	258	236	211	177	145	110	073	034	000
15		.11	.13	.15	.17	.19	.20	.22	.23	.23	.24	.24	.23	.23	.22	.21	.19	.18	.16	.13	.11	.08	.05	.02	.00
		144	176	205	231	253	272	290	301	309	312	312	308	300	288	273	255	233	207	173	141	107	070	030	000
30		.11	.13	.15	.17	.19	.20	.22	.23	.23	.23	.23	.23	.23	.22	.20	.19	.17	.15	.13	.10	.08	.05	.02	.00
		142	174	203	229	251	270	288	299	306	310	309	305	297	286	271	252	230	205	170	138	104	067	028	000
45		.10	.13	.15	.17	.19	.20	.22	.22	.23	.23	.23	.23	.22	.22	.20	.19	.17	.15	.13	.10	.08	.05	.02	.00
		141	173	202	227	250	269	287	298	305	308	308	304	296	284	269	250	228	203	168	137	102	065	026	000

MAY-AUG 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	002	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	025	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	038	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0400	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	051	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	064	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	078	036	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	092	051	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0500	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	107	066	023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	122	080	038	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	137	096	053	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	152	111	069	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	167	126	084	041	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	182	141	099	057	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.15	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	197	157	115	072	028	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	212	172	130	087	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.17	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	227	187	145	102	059	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.18	.15	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	242	201	159	117	073	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.19	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	256	215	174	131	087	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.20	.17	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	270	229	188	145	101	057	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0800	.21	.18	.15	.12	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	283	243	201	158	115	071	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.22	.19	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	296	255	214	171	128	083	039	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.23	.20	.17	.14	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	308	268	226	183	140	096	051	007	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.24	.21	.18	.14	.11	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	320	279	238	195	151	107	063	018	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.25	.22	.18	.15	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	331	290	249	206	162	118	074	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.25	.22	.19	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	341	301	259	216	172	128	084	039	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.26	.23	.20	.17	.13	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	351	310	269	226	182	137	093	048	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.27	.24	.20	.17	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	360	319	277	234	190	146	101	056	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1000	.27	.24	.21	.18	.15	.11	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	368	327	285	242	198	153	109	064	019	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.28	.25	.22	.18	.15	.12	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	375	334	292	249	205	160	115	070	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.28	.25	.22	.19	.16	.12	.09	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	381	340	298	255	211	166	121	076	031	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.29	.26	.22	.19	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	386	345	303	260	216	171	126	081	036	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1100	.29	.26	.23	.19	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	390	350	307	264	219	175	129	084	039	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.29	.26	.23	.20	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	394	353	310	267	222	177	132	087	042	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.29	.26	.23	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	396	355	313	269	224	179	134	088	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.30	.26	.23	.20	.17	.13	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	398	356	314	270	225	180	134	089	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE SEP 5	10	15	20	25	30	OCT 5	10	15	20	25	30	NOV 5	10	15	20	25	30	DEC 5	10	15	20	25	30
1200	.30	.26	.23	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	398	357	314	270	225	180	134	089	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.30	.26	.23	.20	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	397	356	313	269	224	179	133	087	042	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.29	.26	.23	.20	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	396	354	311	267	222	176	131	085	040	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.29	.26	.23	.19	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	393	352	308	264	219	173	127	081	036	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1300	.29	.26	.23	.19	.16	.12	.09	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	390	348	305	260	215	169	123	077	032	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	29	.25	.22	.19	.15	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	385	343	300	255	210	164	118	072	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.28	.25	.22	.18	.15	.12	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	380	338	294	249	204	158	111	065	020	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.28	.25	.21	.18	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	373	331	287	243	197	151	104	058	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1400	.27	.24	.21	.17	.14	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	366	324	280	235	189	143	096	050	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.27	.23	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	358	316	272	226	180	134	087	041	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.26	.23	.19	.16	.13	.09	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	349	306	262	217	171	124	078	031	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.25	.22	.19	.15	.12	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	339	297	252	207	161	114	067	021	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500	.24	.21	.18	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	329	286	242	196	150	103	056	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.24	.20	.17	.14	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	318	275	230	184	138	091	044	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.23	.19	.16	.13	.09	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	306	263	218	172	126	079	032	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.22	.19	.15	.12	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	294	250	205	159	113	066	018	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1600	.21	.18	.14	.11	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	281	237	192	146	099	052	005	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	267	223	178	132	085	038	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.19	.16	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	253	209	164	118	071	024	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	18	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	239	195	150	103	056	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1700	.17	.13	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	224	180	135	088	041	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.16	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	210	165	120	073	026	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	195	150	105	058	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.13	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	179	135	089	043	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

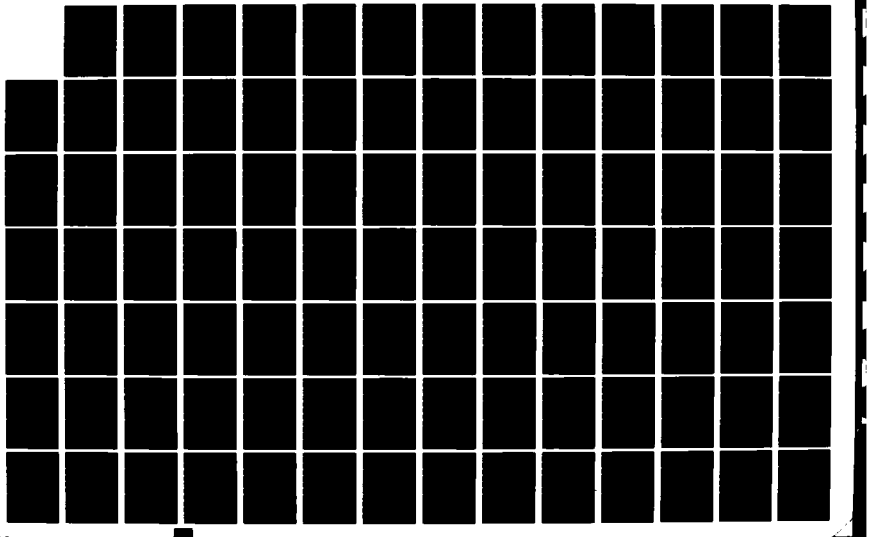
MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1800		.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		164	120	074	027	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15		.11	.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		149	104	059	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30		.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		134	089	043	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.09	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		119	074	028	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1900		.08	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		104	059	013	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15		.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		090	045	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30		.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		075	031	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		062	017	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
2000		.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		048	003	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15		.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		035	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30		.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		023	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

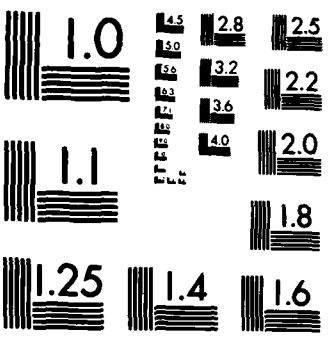
SEP-DEC 80 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

AD-A127 853 FINAL TACTICAL DECISION AID (FTDA) FOR INFRARED (8-12 MICROMETERS) SYSTEM..(U) SYSTEMS AND APPLIED SCIENCES CORP RIVERDALE MD D B HODGES ET AL. 15 SEP 82 3/5

UNCLASSIFIED SCIENTIFIC-3 AFGL-TR-82-0294 F/G 3/2 NL





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015	050
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	017	055	090
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	019	059	097	131
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.10	.13
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	062	101	139	173
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.13	.16
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	064	105	144	181	215
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.05	.08	.11	.14	.17	.19
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	065	104	149	188	224	258
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.11	.14	.17	.20	.22
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	056	109	152	193	231	267	301
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.23	.25
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	056	101	154	195	237	275	310	343
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.15	.18	.21	.24	.26	.29
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	055	101	146	198	240	280	318	353	386
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.18	.21	.24	.27	.29	.32
	000	000	000	000	000	000	000	000	000	000	000	000	000	009	054	100	145	190	242	284	324	361	396	428

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.21	.24	.27	.30	.32	.35
	000	000	000	000	000	000	000	000	000	000	000	000	009	054	099	144	190	234	286	327	366	403	438	469
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.14	.17	.20	.24	.27	.30	.33	.35	.38
	000	000	000	000	000	000	000	000	000	000	000	000	053	098	143	188	233	277	329	370	409	445	479	510
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.07	.10	.13	.17	.20	.23	.27	.30	.33	.36	.38	.41
	000	000	000	000	000	000	000	000	000	000	000	028	096	141	186	231	276	319	370	411	450	486	519	550
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.10	.13	.16	.20	.23	.26	.30	.33	.36	.39	.41	.44
	000	000	000	000	000	000	000	000	000	000	029	070	138	183	228	273	317	361	411	452	490	525	558	589
0800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.13	.16	.19	.23	.26	.29	.33	.36	.39	.42	.44	.46
	000	000	000	000	000	000	000	000	000	031	070	111	179	224	268	313	357	401	451	491	528	564	596	626
15	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.16	.19	.22	.26	.29	.32	.36	.39	.42	.44	.47	.49
	000	000	000	000	000	000	000	001	034	070	109	150	219	263	308	352	396	439	489	528	566	600	633	662
30	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.11	.14	.19	.22	.25	.29	.32	.35	.38	.41	.44	.47	.49	.52
	000	000	000	000	000	000	002	038	072	108	147	188	257	301	346	390	434	476	526	562	601	636	668	697
45	.00	.00	.00	.00	.00	.01	.03	.05	.08	.10	.13	.16	.21	.24	.28	.31	.34	.37	.41	.44	.47	.49	.52	.54
	000	000	000	000	000	011	037	074	108	145	184	225	294	338	382	426	469	512	560	599	635	669	701	729
0900	.00	.00	.00	.00	.02	.03	.05	.08	.10	.13	.16	.19	.24	.27	.30	.33	.37	.40	.43	.46	.49	.52	.54	.56
	000	000	000	002	021	044	071	108	142	179	218	260	328	372	416	460	503	545	593	631	667	701	732	760
15	.00	.01	.01	.02	.04	.05	.07	.10	.12	.15	.18	.21	.26	.29	.32	.36	.39	.42	.46	.49	.51	.54	.56	.59
	003	008	018	033	052	076	103	140	175	212	251	292	361	404	448	492	535	576	624	662	697	731	761	789
30	.02	.03	.03	.04	.06	.07	.09	.12	.15	.17	.20	.23	.28	.31	.35	.38	.41	.44	.48	.51	.53	.56	.58	.60
	030	036	046	062	081	105	133	170	205	242	282	323	391	435	478	522	564	605	653	690	725	758	788	816
45	.04	.04	.05	.06	.08	.09	.11	.14	.17	.19	.22	.25	.30	.33	.37	.40	.43	.46	.50	.53	.55	.58	.60	.62
	055	061	073	088	108	132	160	198	233	270	310	351	420	463	506	549	591	632	679	715	751	783	813	840

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1000	.06	.06	.07	.08	.09	.11	.13	.16	.18	.21	.24	.27	.32	.35	.38	.42	.45	.48	.51	.54	.57	.59	.62	.64
	079	085	096	112	133	157	185	224	259	296	336	377	445	489	532	574	616	657	703	740	774	806	835	862
15	.07	.08	.08	.10	.11	.13	.15	.18	.20	.23	.26	.29	.34	.37	.40	.43	.46	.49	.53	.55	.58	.61	.63	.65
	099	106	118	134	155	180	208	247	282	320	360	401	469	512	555	597	639	679	725	761	795	826	855	882
30	.08	.09	.10	.11	.12	.14	.16	.19	.22	.24	.27	.30	.35	.38	.42	.45	.48	.51	.54	.57	.60	.62	.65	.67
	117	124	137	154	175	200	229	268	303	341	381	422	490	532	575	617	658	698	744	779	813	844	873	899
45	.09	.10	.11	.12	.14	.15	.18	.20	.23	.26	.29	.32	.37	.40	.43	.46	.49	.52	.56	.58	.61	.63	.66	.68
	133	140	153	170	192	217	247	286	321	359	399	440	508	550	593	635	675	715	760	795	828	859	888	913
1100	.10	.11	.12	.13	.15	.16	.19	.21	.24	.27	.30	.33	.38	.41	.44	.47	.50	.53	.57	.59	.62	.64	.67	.69
	146	153	167	185	206	232	262	301	337	375	415	456	523	566	608	649	690	729	773	806	841	872	900	925
15	.11	.12	.13	.14	.15	.17	.19	.22	.25	.28	.31	.34	.39	.42	.45	.48	.51	.54	.57	.60	.63	.65	.67	.69
	156	164	178	196	218	244	274	314	350	388	427	469	536	578	620	661	701	740	784	819	851	881	909	935
30	.12	.12	.13	.15	.16	.18	.20	.23	.26	.28	.31	.34	.39	.42	.45	.49	.52	.55	.58	.61	.63	.66	.68	.70
	164	172	186	205	227	254	284	323	360	398	437	478	545	587	629	670	710	748	792	824	858	888	916	941
45	.12	.13	.14	.15	.17	.18	.21	.24	.26	.29	.32	.35	.40	.43	.46	.49	.52	.55	.58	.61	.64	.66	.68	.70
	169	177	192	211	234	260	290	330	367	405	445	486	552	594	635	676	715	753	797	831	863	892	920	945
1200	.12	.13	.14	.15	.17	.19	.21	.24	.26	.29	.32	.35	.40	.43	.46	.49	.52	.55	.58	.61	.64	.66	.68	.70
	171	179	194	214	237	264	294	335	371	409	449	490	556	598	639	679	718	756	799	832	864	894	921	945
15	.12	.13	.14	.15	.17	.19	.21	.24	.27	.29	.32	.35	.40	.43	.46	.49	.52	.55	.58	.61	.63	.66	.68	.70
	170	179	194	214	238	265	295	336	372	410	450	491	557	598	639	679	718	755	798	831	863	892	919	944
30	.12	.12	.14	.15	.17	.19	.21	.24	.26	.29	.32	.35	.40	.43	.46	.49	.52	.55	.58	.61	.63	.65	.68	.70
	166	176	191	211	235	263	294	334	371	409	448	489	555	596	636	676	715	752	794	827	858	887	914	939
45	.11	.12	.13	.15	.16	.18	.21	.23	.26	.29	.32	.35	.40	.43	.46	.49	.52	.54	.58	.60	.63	.65	.67	.69
	160	170	186	206	230	258	289	330	366	404	444	484	550	591	631	670	709	745	787	820	851	880	907	931

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1300	.11	.11	.13	.14	.16	.18	.20	.23	.26	.28	.31	.34	.39	.42	.45	.48	.51	.54	.57	.59	.62	.64	.66	.68
	151	161	177	198	222	250	281	322	359	397	436	477	542	582	622	662	700	736	778	811	841	870	897	921
15	.10	.11	.12	.13	.15	.17	.19	.22	.25	.28	.30	.33	.38	.41	.44	.47	.50	.53	.56	.59	.61	.63	.65	.67
	139	149	166	187	212	240	271	312	348	387	426	466	531	571	611	650	688	724	765	798	829	857	884	908
30	.09	.10	.11	.12	.14	.16	.18	.21	.24	.27	.30	.32	.37	.40	.43	.46	.49	.52	.55	.57	.60	.62	.64	.66
	125	135	152	173	198	227	258	299	335	373	413	453	517	557	597	636	673	709	750	783	813	842	868	893
45	.08	.08	.10	.11	.13	.15	.17	.20	.23	.26	.28	.31	.36	.39	.42	.45	.48	.50	.54	.56	.58	.61	.63	.65
	108	119	136	157	182	211	242	283	320	358	397	437	501	541	580	618	656	691	732	765	795	823	850	874
1400	.06	.07	.08	.10	.12	.14	.16	.19	.21	.24	.27	.30	.35	.38	.41	.43	.46	.49	.52	.55	.57	.59	.61	.63
	088	099	117	138	164	192	224	265	301	339	378	418	482	521	560	598	635	671	712	741	774	803	829	854
15	.05	.06	.07	.08	.10	.12	.14	.17	.20	.23	.26	.28	.33	.36	.39	.42	.45	.47	.50	.53	.55	.58	.60	.62
	066	077	095	117	143	171	203	244	280	318	357	396	460	499	538	576	613	648	689	721	751	780	806	831
30	.03	.04	.05	.07	.08	.11	.13	.16	.18	.21	.24	.27	.31	.34	.37	.40	.43	.45	.49	.51	.53	.56	.58	.60
	042	053	071	093	119	148	179	220	256	294	333	372	435	475	513	551	588	623	663	695	726	754	781	805
45	.01	.02	.03	.05	.07	.09	.11	.14	.16	.19	.22	.25	.29	.32	.35	.38	.41	.43	.46	.49	.51	.54	.56	.58
	015	027	045	067	093	122	153	194	230	268	306	346	409	448	486	524	560	595	636	667	698	726	753	778
1500	.00	.00	.01	.03	.05	.07	.09	.12	.14	.17	.20	.23	.27	.30	.33	.36	.39	.41	.44	.47	.49	.51	.54	.56
	000	000	017	039	065	094	125	166	202	239	278	317	379	418	456	494	530	565	606	637	668	696	723	748
15	.00	.00	.00	.01	.02	.05	.07	.10	.12	.15	.18	.20	.25	.28	.31	.34	.36	.39	.42	.44	.47	.49	.51	.53
	000	000	000	009	035	063	095	136	171	209	247	286	348	387	425	462	498	533	573	605	636	664	691	717
30	.00	.00	.00	.00	.00	.02	.04	.07	.10	.13	.15	.18	.23	.25	.28	.31	.34	.36	.39	.42	.44	.47	.49	.51
	000	000	000	000	002	031	063	103	139	176	214	253	315	353	391	428	464	499	539	571	602	631	658	683
45	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.16	.20	.23	.26	.28	.31	.34	.37	.39	.42	.44	.46	.48
	000	000	000	000	000	000	028	069	104	141	179	218	279	318	355	392	428	463	503	535	566	595	623	648

DATE

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1600	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.10	.13	.17	.20	.23	.26	.28	.31	.34	.37	.39	.41	.43	.45
	000	000	000	000	000	000	000	033	068	105	143	181	242	280	318	355	391	426	466	493	529	558	586	612
15	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.15	.17	.20	.23	.26	.28	.31	.33	.36	.38	.41	.43
	000	000	000	000	000	000	000	000	030	067	104	142	203	241	279	316	352	387	427	454	490	520	547	574
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.12	.15	.17	.20	.23	.25	.28	.31	.33	.35	.38	.40
	000	000	000	000	000	000	000	000	000	027	065	102	163	201	238	275	311	346	387	419	450	480	508	535
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.09	.12	.14	.17	.20	.22	.25	.28	.30	.32	.35	.37
	000	000	000	000	000	000	000	000	000	000	024	061	122	159	197	233	269	304	345	378	409	439	467	494
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.06	.08	.11	.14	.17	.19	.22	.25	.27	.29	.32	.34
	000	000	000	000	000	000	000	000	000	000	000	019	079	117	154	191	227	262	303	336	367	397	426	453
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.11	.13	.16	.19	.21	.24	.26	.28	.31
	000	000	000	000	000	000	000	000	000	000	000	000	036	073	110	147	183	218	259	292	324	355	384	412
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.16	.18	.21	.23	.25	.27
	000	000	000	000	000	000	000	000	000	000	000	000	000	029	066	103	139	174	216	249	281	312	341	369
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.10	.13	.15	.17	.20	.22	.24
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	058	094	130	171	205	237	268	298	327
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09	.12	.14	.17	.19	.21
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013	049	085	127	161	193	225	255	284
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.11	.13	.16	.18
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	040	082	116	149	181	212	241
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.10	.13	.15
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	038	072	106	138	169	199
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	029	062	095	127	157

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	053	085	115
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.06
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	043	074
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003	035
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	•000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 60 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

••• SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY •

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0300	.00	.00	.00	.00	.00	.00	.01	.01	.02	.02	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	008	017	023	024	022	016	005	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.02	.03	.04	.04	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	006	023	038	047	052	053	050	044	035	022	006	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.01	.03	.04	.05	.06	.06	.06	.06	.06	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	017	037	054	069	078	082	084	081	075	065	053	037	018	000	000	000	000	000	000	000	000
15	.00	.00	.02	.04	.05	.07	.08	.08	.09	.09	.09	.08	.07	.06	.05	.04	.02	.00	.00	.00	.00	.00	.00	.00
	000	000	027	051	071	087	102	110	115	116	113	107	097	085	069	050	029	006	000	000	000	000	000	000
0400	.01	.03	.05	.06	.08	.09	.10	.11	.11	.11	.11	.11	.10	.09	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00
	006	036	063	086	106	122	136	144	149	149	147	140	131	118	103	084	063	040	009	000	000	000	000	000
15	.03	.06	.08	.09	.11	.12	.13	.14	.14	.14	.14	.13	.13	.12	.10	.09	.07	.06	.03	.01	.00	.00	.00	.00
	044	073	100	123	142	158	172	180	184	184	181	175	166	153	138	119	099	076	045	018	000	000	000	000
30	.06	.08	.10	.12	.14	.15	.16	.16	.17	.17	.16	.16	.15	.14	.13	.12	.10	.09	.06	.04	.02	.00	.00	.00
	083	112	138	161	180	195	209	216	220	221	218	211	202	189	174	156	135	113	083	056	027	000	000	000
45	.09	.11	.13	.15	.16	.18	.19	.19	.19	.19	.19	.19	.18	.17	.16	.15	.13	.11	.09	.07	.05	.03	.00	.00
	122	151	177	199	218	233	247	254	257	258	255	248	239	226	211	193	173	151	121	095	066	037	006	000

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.12	.14	.16	.18	.19	.20	.21	.22	.22	.22	.22	.22	.21	.20	.19	.18	.16	.14	.12	.10	.08	.06	.04	.01
	163	192	217	239	257	272	285	292	296	296	293	286	277	264	249	232	212	190	161	134	107	077	047	015
15	.15	.17	.19	.21	.22	.23	.24	.25	.25	.25	.25	.25	.24	.23	.22	.20	.19	.17	.15	.13	.11	.09	.07	.04
	204	233	258	279	297	312	324	331	334	334	331	325	315	303	288	271	251	230	201	175	148	119	089	058
30	18	.20	.22	.24	.25	.26	.27	.28	.28	.28	.28	.28	.27	.26	.25	.23	.22	.20	.18	.16	.14	.12	.10	.08
	246	274	299	320	337	352	364	371	374	374	370	364	355	343	328	311	292	270	242	216	189	161	131	100
45	.21	.24	.25	.27	.28	.29	.30	.31	.31	.31	.31	.31	.30	.29	.28	.27	.25	.23	.21	.19	.17	.15	.13	.11
	288	316	340	361	378	392	404	410	413	413	410	404	394	382	368	351	332	311	283	258	231	203	174	144
0600	.25	.27	.29	.30	.31	.33	.33	.34	.34	.34	.34	.34	.33	.32	.31	.30	.28	.27	.24	.23	.21	.18	.16	.14
	331	358	382	402	419	432	444	450	453	453	450	443	434	422	408	392	373	352	325	300	274	246	217	187
15	.28	.30	.32	.33	.35	.36	.36	.37	.37	.37	.37	.37	.36	.35	.34	.33	.31	.30	.28	.26	.24	.22	.19	.17
	373	400	423	443	460	473	484	490	493	493	489	483	474	463	448	432	414	393	366	342	316	289	260	230
30	.31	.33	.35	.36	.38	.39	.39	.40	.40	.40	.40	.40	.39	.38	.37	.36	.34	.33	.31	.29	.27	.25	.23	.20
	415	441	464	484	500	513	524	530	533	532	529	523	514	503	489	473	454	434	408	384	358	331	303	274
45	.34	.36	.38	.39	.41	.42	.42	.43	.43	.43	.43	.43	.42	.41	.40	.39	.37	.36	.34	.32	.30	.28	.26	.24
	457	483	505	524	540	553	564	570	572	572	568	562	553	542	529	513	495	475	449	425	400	373	346	316
0700	.37	.39	.41	.42	.44	.45	.45	.46	.46	.46	.46	.45	.45	.44	.43	.42	.40	.39	.37	.35	.33	.31	.29	.27
	498	523	545	564	580	592	603	609	611	610	607	601	592	581	568	552	535	515	490	466	441	415	388	359
15	.40	.42	.44	.45	.46	.47	.48	.49	.49	.49	.49	.48	.48	.47	.46	.45	.43	.42	.40	.38	.36	.34	.32	.30
	538	563	585	604	619	631	642	647	649	649	645	639	631	620	607	592	574	555	530	507	482	456	429	400
30	.43	.45	.47	.48	.49	.50	.51	.52	.52	.52	.52	.51	.51	.50	.49	.48	.46	.45	.43	.41	.39	.37	.35	.33
	578	602	624	642	657	669	679	684	686	686	683	677	669	658	645	630	613	594	569	546	522	496	469	441
45	.46	.48	.49	.51	.52	.53	.54	.54	.55	.55	.54	.54	.53	.53	.52	.50	.49	.48	.46	.44	.42	.40	.38	.36
	616	640	661	679	694	706	716	721	723	722	719	713	705	695	682	667	651	632	607	585	561	536	509	481

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.49	.50	.52	.54	.55	.56	.57	.57	.57	.57	.57	.57	.56	.55	.54	.53	.52	.50	.48	.47	.45	.43	.41	.39
	653	677	697	715	730	741	751	756	758	757	754	749	741	730	718	704	687	669	644	622	599	574	547	519
15	.51	.53	.55	.56	.57	.58	.59	.60	.60	.60	.60	.59	.59	.58	.57	.56	.54	.53	.51	.49	.48	.46	.44	.41
	689	712	732	750	764	775	785	790	792	791	768	783	775	765	753	739	722	704	680	659	635	610	584	556
30	.54	.56	.57	.59	.60	.61	.62	.62	.62	.62	.62	.62	.61	.60	.59	.58	.57	.56	.54	.52	.50	.48	.46	.44
	723	746	766	783	797	808	817	822	824	824	821	816	808	798	786	772	756	738	715	693	670	645	619	591
45	.56	.58	.60	.61	.62	.63	.64	.64	.65	.65	.64	.64	.63	.63	.62	.61	.59	.58	.56	.55	.53	.51	.49	.47
	755	778	797	814	828	839	848	853	855	855	852	847	839	830	818	804	789	771	748	726	703	679	653	625
0900	.58	.60	.62	.63	.64	.65	.66	.66	.67	.67	.67	.66	.66	.65	.64	.63	.62	.60	.59	.57	.55	.53	.51	.49
	785	808	827	844	857	868	877	882	884	884	881	876	869	859	848	835	819	802	779	758	735	710	684	657
15	.61	.62	.64	.65	.66	.67	.68	.69	.69	.69	.69	.68	.68	.67	.66	.65	.64	.63	.61	.59	.57	.55	.53	.51
	814	836	855	871	885	895	905	909	912	911	909	904	897	888	876	863	848	831	808	787	764	740	714	686
30	.62	.64	.66	.67	.68	.69	.70	.70	.71	.71	.71	.70	.70	.69	.68	.67	.66	.65	.63	.61	.59	.57	.55	.53
	840	862	881	897	910	921	930	935	937	937	934	930	923	914	903	890	875	858	835	814	792	768	742	714
45	.64	.66	.68	.69	.70	.71	.72	.72	.72	.72	.72	.72	.72	.71	.70	.69	.68	.66	.65	.63	.61	.59	.57	.55
	864	886	904	920	933	944	953	958	960	960	958	953	946	938	927	914	899	883	860	840	817	793	767	739
1000	.66	.68	.69	.70	.72	.72	.73	.74	.74	.74	.74	.74	.73	.73	.72	.71	.70	.68	.66	.65	.63	.61	.59	.57
	886	907	926	942	955	965	974	979	981	981	979	975	968	960	949	936	922	905	883	863	840	816	790	762
15	.67	.69	.71	.72	.73	.74	.75	.75	.75	.76	.75	.75	.75	.74	.73	.72	.71	.70	.68	.66	.65	.63	.60	.58
	905	926	945	960	973	984	993	998	*000	*000	998	994	988	979	969	957	942	926	904	883	861	837	811	783
30	.69	.70	.72	.73	.74	.75	.76	.76	.77	.77	.77	.76	.76	.75	.74	.74	.72	.71	.69	.68	.66	.64	.62	.60
	922	943	961	977	990	*000	*009	*014	*017	*017	*015	*011	*005	997	986	974	960	944	922	902	879	855	829	801
45	.70	.71	.73	.74	.75	.76	.77	.77	.78	.78	.78	.77	.77	.76	.76	.75	.74	.72	.71	.69	.67	.65	.63	.61
	937	957	975	991	*003	*014	*023	*028	*031	*031	*029	*026	*020	*012	*002	990	976	960	938	917	895	871	845	816

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100		.71	.72	.74	.75	.76	.77	.78	.78	.79	.79	.79	.78	.78	.77	.77	.76	.75	.73	.71	.70	.68	.66	.64	.62
		948	969	987	*002	*015	*025	*034	*039	*042	*043	*041	*038	*032	*024	*014	*002	989	973	951	930	908	884	857	829
15		.71	.73	.74	.76	.77	.78	.79	.79	.79	.79	.79	.79	.79	.78	.77	.76	.75	.74	.72	.71	.69	.67	.65	.62
		957	978	995	*011	*023	*034	*043	*048	*051	*052	*051	*047	*042	*034	*024	*013	999	983	961	941	919	894	868	839
30		.72	.73	.75	.76	.77	.78	.79	.79	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.73	.71	.69	.67	.65	.63
		964	9	.01	*017	*029	*040	*049	*055	*058	*059	*058	*054	*049	*042	*032	*020	*007	991	969	949	926	902	875	846
45		.7	4	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80	.80	.79	.78	.77	.76	.75	.73	.72	.70	.68	.66	.63
		967	987	*005	*020	*033	*043	*053	*058	*062	*063	*062	*059	*054	*046	*037	*025	*012	996	974	954	931	907	880	851
1200		.72	.7	.75	.76	.78	.78	.79	.80	.80	.80	.80	.80	.80	.79	.78	.78	.76	.75	.73	.72	.70	.68	.66	.63
		968	986	.05	*021	*034	*044	*054	*060	*063	*064	*064	*061	*056	*049	*039	*028	*014	999	977	956	934	909	881	852
15		.72	.73	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80	.80	.79	.78	.78	.76	.75	.73	.72	.70	.68	.66	.63
		966	986	*003	*019	*032	*042	*052	*058	*062	*063	*063	*060	*055	*048	*039	*028	*014	998	977	956	933	908	880	851
30		.71	.73	.75	.76	.77	.78	.79	.79	.80	.80	.80	.80	.79	.79	.78	.77	.76	.75	.73	.72	.70	.68	.65	.63
		961	981	999	*014	*027	*038	*048	*054	*058	*060	*059	*057	*052	*045	*036	*025	*011	996	974	953	930	904	877	847
45		.71	.73	.74	.75	.76	.77	.78	.79	.79	.80	.80	.79	.79	.79	.78	.77	.76	.75	.73	.71	.69	.67	.65	.63
		953	973	991	*007	*020	*031	*041	*047	*051	*053	*053	*051	*046	*039	*031	*019	*006	990	968	947	924	898	870	840
1300		.70	.72	.73	.75	.76	.77	.78	.78	.79	.79	.79	.79	.78	.78	.77	.76	.75	.74	.72	.70	.69	.66	.64	.62
		943	963	981	997	*010	*021	*032	*038	*042	*045	*045	*042	*038	*031	*022	*011	998	982	960	938	915	889	861	830
15		.69	.71	.72	.74	.75	.76	.77	.77	.78	.78	.78	.78	.78	.77	.76	.76	.74	.73	.71	.70	.68	.66	.63	.61
		930	950	968	984	998	*009	*020	*026	*031	*033	*033	*031	*027	*021	*012	*000	987	971	949	927	903	877	849	818
30		.68	.70	.71	.73	.74	.75	.76	.76	.77	.77	.77	.77	.77	.76	.75	.75	.73	.72	.70	.69	.67	.65	.62	.60
		915	935	953	969	983	994	*005	*012	*017	*019	*020	*018	*014	*007	998	987	974	958	935	913	889	863	834	803
45		.67	.68	.70	.71	.72	.73	.74	.75	.75	.76	.76	.76	.75	.75	.74	.73	.72	.71	.69	.67	.65	.63	.61	.58
		897	917	935	951	965	977	988	996	*000	*003	*004	*002	998	992	983	972	958	942	919	897	873	846	816	785

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
x0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.65	.67	.68	.70	.71	.72	.73	.74	.74	.74	.74	.74	.74	.74	.73	.72	.71	.70	.68	.66	.64	.62	.59	.57
	876	897	915	931	946	958	969	977	982	985	985	984	980	973	965	953	940	923	900	878	853	826	796	764
15	.63	.65	.67	.68	.69	.70	.71	.72	.72	.73	.73	.73	.72	.72	.71	.70	.69	.68	.66	.64	.62	.60	.58	.55
	853	874	893	909	923	936	948	955	961	964	965	963	959	953	944	933	919	902	879	857	832	804	774	742
30	.62	.63	.65	.66	.67	.69	.70	.70	.71	.71	.71	.71	.71	.70	.70	.69	.68	.66	.64	.63	.61	.58	.56	.53
	828	849	868	885	899	912	924	932	938	941	942	940	937	930	922	910	896	879	856	833	808	780	749	716
45	.60	.61	.63	.64	.65	.67	.68	.68	.69	.69	.69	.69	.69	.68	.68	.67	.66	.64	.62	.61	.59	.56	.54	.51
	801	822	841	858	873	886	898	906	912	916	917	916	912	906	897	885	871	854	830	807	782	753	722	689
1500	.57	.59	.61	.62	.63	.64	.66	.66	.67	.67	.67	.67	.67	.66	.66	.65	.64	.62	.60	.59	.56	.54	.52	.49
	771	793	812	829	845	858	871	879	885	889	890	889	885	879	870	858	844	827	803	779	753	725	693	659
15	.55	.57	.58	.60	.61	.62	.63	.64	.65	.65	.65	.65	.65	.64	.64	.63	.61	.60	.58	.56	.54	.52	.49	.47
	740	762	781	799	814	828	841	850	856	860	861	860	857	850	841	830	815	798	773	749	723	694	662	628
30	.53	.54	.56	.57	.59	.60	.61	.62	.62	.63	.63	.63	.62	.62	.61	.60	.59	.58	.56	.54	.52	.49	.47	.44
	707	729	749	767	782	796	810	819	825	829	831	830	826	820	811	799	784	767	742	718	691	661	629	594
45	.50	.52	.53	.55	.56	.57	.58	.59	.60	.60	.60	.60	.60	.60	.59	.58	.57	.55	.53	.51	.49	.47	.44	.42
	672	694	715	733	749	763	777	786	793	797	799	798	794	788	779	767	752	734	709	684	657	627	594	559
1600	.47	.49	.51	.52	.54	.55	.56	.57	.57	.58	.58	.58	.58	.57	.56	.55	.54	.53	.51	.49	.47	.44	.42	.39
	636	658	679	697	714	728	743	752	759	763	765	764	761	754	745	733	718	700	674	649	621	591	558	522
15	.44	.46	.48	.49	.51	.52	.53	.54	.55	.55	.55	.55	.55	.54	.54	.53	.51	.50	.48	.46	.44	.41	.39	.36
	598	621	642	661	678	692	707	717	724	728	730	730	726	719	710	698	682	664	638	613	585	554	520	484
30	.42	.43	.45	.47	.48	.49	.50	.51	.52	.52	.52	.52	.52	.52	.51	.50	.49	.47	.45	.43	.41	.39	.36	.33
	559	583	604	623	640	655	670	680	687	692	694	693	690	683	674	661	646	627	600	575	546	515	481	445
45	.39	.40	.42	.44	.45	.46	.48	.48	.49	.49	.50	.50	.49	.49	.48	.47	.46	.44	.42	.40	.38	.36	.33	.30
	520	543	565	584	602	617	633	643	650	655	657	656	653	646	636	624	608	589	562	535	507	475	441	404

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.36	.37	.39	.41	.42	.43	.45	.46	.46	.47	.47	.47	.46	.46	.45	.44	.43	.41	.39	.37	.35	.33	.30	.27
	479	503	525	545	563	578	594	604	612	617	619	619	615	608	598	585	569	550	522	496	467	435	400	363
15	.33	.34	.36	.38	.39	.40	.42	.43	.43	.44	.44	.44	.44	.43	.42	.41	.40	.38	.36	.34	.32	.29	.27	.24
	438	462	484	505	523	539	555	565	573	578	581	580	576	569	559	546	530	510	482	455	426	393	358	320
30	.29	.31	.33	.35	.36	.37	.39	.40	.40	.41	.41	.41	.41	.40	.39	.38	.37	.35	.33	.31	.29	.26	.24	.21
	396	420	443	464	482	499	515	526	534	539	541	541	537	530	520	506	489	469	441	414	384	351	316	278
45	.26	.28	.30	.32	.33	.34	.36	.37	.37	.38	.38	.38	.38	.37	.36	.35	.34	.32	.30	.28	.26	.23	.20	.17
	353	379	402	423	442	458	475	486	494	500	502	501	497	490	480	466	449	429	400	372	342	309	273	234
1800	.23	.25	.27	.29	.30	.31	.33	.34	.34	.35	.35	.35	.35	.34	.33	.32	.31	.29	.27	.25	.22	.20	.17	.14
	311	337	360	382	401	418	435	446	454	460	462	461	457	450	439	425	408	387	358	331	300	266	230	191
15	.20	.22	.24	.26	.27	.28	.30	.31	.31	.32	.32	.32	.32	.31	.30	.29	.28	.26	.24	.22	.19	.17	.14	.11
	269	295	319	341	360	377	395	406	414	420	422	422	417	410	399	385	367	346	317	289	257	223	187	148
30	.17	.19	.21	.22	.24	.25	.27	.28	.28	.29	.29	.29	.29	.28	.27	.26	.25	.23	.21	.19	.16	.14	.11	.08
	227	253	277	300	320	337	355	366	375	380	383	382	378	370	359	345	327	305	275	247	215	181	144	104
45	.14	.16	.18	.19	.21	.22	.24	.25	.25	.26	.26	.26	.26	.25	.24	.23	.22	.20	.18	.15	.13	.10	.08	.05
	185	212	237	259	279	297	315	327	335	341	343	342	338	330	319	304	286	264	234	205	173	139	101	062
1900	.11	.13	.15	.16	.18	.19	.21	.22	.22	.23	.23	.23	.23	.22	.21	.20	.19	.17	.15	.12	.10	.07	.04	.01
	144	171	196	219	240	258	276	288	297	302	305	304	299	291	280	265	246	224	193	164	132	097	059	019
15	.08	.10	.12	.14	.15	.17	.18	.19	.20	.20	.20	.20	.20	.19	.18	.17	.16	.14	.12	.09	.07	.04	.01	.00
	104	131	157	180	201	219	238	250	258	264	266	265	261	253	241	226	207	184	153	124	091	056	018	000
30	.05	.07	.09	.11	.12	.14	.15	.16	.17	.17	.17	.17	.17	.16	.15	.14	.13	.11	.09	.06	.04	.01	.00	.00
	064	092	118	142	163	182	200	212	221	227	229	228	223	215	203	187	168	145	114	084	051	016	000	000
45	.02	.04	.06	.08	.09	.11	.12	.13	.14	.14	.15	.14	.14	.13	.13	.11	.10	.08	.06	.03	.01	.00	.00	.00
	026	054	081	105	126	145	164	176	185	190	193	191	186	178	166	150	130	108	076	045	012	000	000	000

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
2000	.00	.01	.03	.05	.07	.08	.10	.11	.11	.12	.12	.12	.11	.11	.10	.09	.07	.05	.03	.01	.00	.00	.00	.00
	000	018	044	069	090	109	128	141	150	155	157	156	151	142	130	114	094	071	038	008	000	000	000	000
15	.00	.00	.01	.03	.04	.06	.07	.08	.09	.09	.09	.09	.09	.08	.07	.06	.04	.03	.00	.00	.00	.00	.00	.00
	000	000	009	034	056	075	094	107	116	121	123	122	117	108	095	079	059	035	003	000	000	000	000	000
30	.00	.00	.00	.00	.02	.03	.05	.06	.06	.07	.07	.07	.06	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00
	000	000	000	001	023	043	062	074	083	089	091	089	084	074	062	045	025	001	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.01	.02	.03	.04	.04	.05	.04	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	012	031	043	052	058	060	058	052	043	030	013	000	000	000	000	000	000	000	000
2100	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	002	014	023	029	031	029	023	013	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	001	003	001	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 60 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	019	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	062	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	106	073	040	006	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.11	.09	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	150	117	084	050	016	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.14	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	193	161	128	095	060	025	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.15	.13	.10	.08	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	237	205	172	139	105	070	034	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.21	.18	.16	.13	.11	.08	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	280	248	216	182	148	113	078	042	006	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0700	.24	.22	.19	.17	.14	.11	.09	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	323	291	259	225	191	156	121	085	049	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.27	.25	.22	.20	.17	.15	.12	.09	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	364	333	301	268	233	198	163	127	090	054	018	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.30	.28	.25	.23	.20	.18	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	405	374	342	309	275	240	204	168	131	094	058	022	000	000	000	000	000	000	000	000	000	000	000	000
45	.33	.31	.28	.26	.23	.20	.18	.15	.12	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	445	414	382	349	314	279	244	207	170	134	097	061	019	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 60 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.36	.34	.31	.29	.26	.23	.21	.18	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	484	453	420	387	353	318	282	245	208	171	135	098	056	022	000	000	000	000	000	000	000	000	000	000
15	.39	.36	.34	.31	.29	.26	.23	.21	.18	.15	.12	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	521	490	458	424	390	355	319	282	245	208	171	134	091	057	025	000	000	000	000	000	000	000	000	000
30	.41	.39	.36	.34	.31	.29	.26	.23	.20	.18	.15	.12	.09	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00
	556	525	493	460	425	390	354	317	279	242	205	168	125	091	059	028	001	000	000	000	000	000	000	000
45	.44	.41	.39	.36	.34	.31	.28	.25	.23	.20	.17	.14	.11	.09	.07	.04	.02	.01	.00	.00	.00	.00	.00	.00
	590	559	527	493	459	423	387	350	312	274	237	200	157	123	090	060	032	008	000	000	000	000	000	000
0900	.46	.44	.41	.39	.36	.33	.31	.28	.25	.22	.19	.17	.13	.11	.09	.06	.04	.03	.01	.00	.00	.00	.00	.00
	621	591	558	525	490	454	418	380	343	305	267	230	187	153	120	090	062	038	016	000	000	000	000	000
15	.48	.46	.43	.41	.38	.35	.33	.30	.27	.24	.21	.19	.15	.13	.11	.08	.06	.05	.03	.02	.01	.00	.00	.00
	651	620	588	554	519	483	446	409	371	333	295	258	215	180	148	118	090	065	044	027	014	005	001	001
30	.50	.48	.45	.43	.40	.37	.35	.32	.29	.26	.23	.20	.17	.15	.12	.10	.08	.07	.05	.04	.03	.02	.02	.02
	679	648	615	581	546	510	473	435	397	359	321	284	240	206	173	143	115	091	070	053	040	032	028	028
45	.52	.50	.47	.45	.42	.39	.36	.33	.31	.28	.25	.22	.19	.16	.14	.12	.10	.08	.07	.06	.05	.04	.04	.04
	704	673	640	606	571	534	497	459	421	382	344	307	263	229	196	166	139	114	094	077	064	056	053	054
1000	.54	.51	.49	.46	.44	.41	.38	.35	.32	.29	.26	.24	.20	.18	.16	.13	.11	.10	.08	.07	.06	.06	.05	.05
	727	696	663	628	593	556	519	480	442	403	365	327	284	249	217	187	159	135	115	093	085	078	075	076
15	.55	.53	.50	.48	.45	.42	.39	.36	.33	.31	.28	.25	.22	.19	.17	.15	.13	.11	.10	.09	.08	.07	.07	.07
	747	716	683	648	612	575	538	499	460	422	383	345	302	267	235	205	178	154	134	117	105	098	095	097
30	.57	.54	.52	.49	.46	.43	.40	.38	.35	.32	.29	.26	.23	.20	.18	.16	.14	.12	.11	.10	.09	.08	.08	.08
	765	733	700	665	629	592	554	515	476	437	399	361	317	282	250	220	193	170	150	134	122	115	113	115
45	.58	.55	.53	.50	.47	.44	.41	.38	.36	.33	.30	.27	.24	.21	.19	.17	.15	.13	.12	.11	.10	.09	.09	.09
	780	748	715	680	643	606	567	529	489	450	411	373	330	295	263	233	206	183	163	148	136	130	128	130

SEP-DEC 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.59	.56	.54	.51	.48	.45	.42	.39	.36	.33	.30	.28	.24	.22	.20	.17	.15	.14	.12	.11	.11	.10	.10	.10
	793	761	727	691	655	617	578	539	499	460	421	383	339	305	273	243	216	193	174	159	148	142	140	143
15	.60	.57	.54	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.22	.20	.18	.16	.14	.13	.12	.11	.11	.11	.11
	803	770	736	700	663	625	586	547	507	467	428	390	343	312	280	250	224	201	182	167	157	151	150	153
30	.60	.57	.55	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.23	.20	.18	.16	.15	.13	.12	.12	.11	.11	.11
	809	777	742	706	669	630	591	551	511	472	432	394	350	316	284	255	229	206	187	173	163	157	157	160
45	.60	.58	.55	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.23	.20	.18	.16	.15	.14	.13	.12	.11	.11	.12
	813	780	745	709	671	633	593	553	513	473	434	395	352	317	285	256	230	208	190	176	166	161	161	165
1200	.60	.58	.55	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.23	.20	.18	.16	.15	.13	.13	.12	.12	.12	.12
	815	781	746	709	671	632	592	552	511	471	432	394	350	316	284	255	230	208	190	176	167	162	162	167
15	.60	.58	.55	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.22	.20	.18	.16	.15	.13	.12	.12	.11	.11	.12
	813	779	744	706	668	629	588	548	507	467	427	389	345	311	280	251	226	204	187	173	165	160	161	166
30	.60	.57	.55	.52	.49	.46	.42	.39	.36	.33	.30	.28	.24	.22	.20	.17	.16	.14	.13	.12	.11	.11	.11	.12
	808	774	738	701	662	622	582	541	500	460	420	382	338	304	273	244	219	198	181	163	160	156	157	162
45	.59	.57	.54	.51	.48	.45	.42	.39	.36	.33	.30	.27	.24	.21	.19	.17	.15	.13	.12	.11	.11	.11	.11	.11
	801	766	730	692	653	613	572	531	490	449	410	371	328	294	263	235	210	189	172	160	152	148	150	156
1300	.59	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26	.23	.20	.18	.16	.14	.13	.11	.11	.10	.10	.10	.10
	791	756	719	681	641	601	560	518	477	436	397	358	315	281	250	222	198	177	161	149	141	138	140	147
15	.58	.55	.52	.49	.46	.43	.40	.37	.34	.30	.28	.25	.21	.19	.17	.15	.13	.12	.10	.10	.09	.09	.09	.10
	778	742	705	667	627	586	544	503	461	421	381	342	299	265	235	207	183	163	147	135	128	126	128	135
30	.57	.54	.51	.48	.45	.42	.38	.35	.32	.29	.26	.23	.20	.18	.16	.14	.12	.10	.09	.08	.08	.08	.08	.09
	762	726	689	650	609	568	527	485	443	402	362	324	281	247	217	189	166	146	130	119	112	110	113	120
45	.55	.52	.49	.46	.43	.40	.37	.34	.31	.28	.25	.22	.19	.16	.14	.12	.10	.09	.08	.07	.07	.07	.07	.07
	744	708	670	630	590	548	506	464	422	381	341	303	260	227	196	169	146	127	111	100	094	092	095	103

SEP-DEC 60 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.54	.51	.48	.45	.42	.38	.35	.32	.29	.26	.23	.20	.17	.15	.12	.10	.09	.07	.06	.05	.05	.05	.05	.06
	723	686	648	608	567	525	483	440	399	357	317	279	236	203	173	147	124	105	090	079	073	072	075	083
15	.52	.49	.46	.43	.40	.37	.33	.30	.27	.24	.21	.18	.15	.13	.11	.09	.07	.06	.05	.04	.04	.04	.04	.04
	700	663	624	583	542	500	457	415	373	331	291	253	210	178	148	122	099	080	066	056	050	049	053	061
30	.50	.47	.44	.41	.38	.35	.31	.28	.25	.22	.19	.16	.13	.11	.09	.07	.05	.04	.03	.02	.02	.02	.02	.03
	674	636	597	556	515	472	429	387	344	303	263	225	182	150	120	094	072	054	040	030	025	024	028	037
45	.48	.45	.42	.39	.36	.32	.29	.26	.23	.20	.17	.14	.11	.09	.07	.05	.03	.02	.01	.00	.00	.00	.00	.01
	646	608	568	527	485	442	399	356	314	272	233	195	152	120	091	065	043	025	011	002	000	000	001	010
1500	.46	.43	.40	.37	.33	.30	.27	.24	.20	.17	.14	.12	.09	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00
	616	578	537	496	453	410	367	324	281	240	200	162	120	088	059	033	012	000	000	000	000	000	000	000
15	.43	.40	.37	.34	.31	.28	.24	.21	.18	.15	.12	.09	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	584	545	504	463	420	376	333	289	247	205	166	128	086	054	025	000	000	000	000	000	000	000	000	000
30	.41	.38	.35	.31	.28	.25	.22	.18	.15	.12	.09	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	550	511	470	427	384	340	297	253	211	169	129	092	050	018	000	000	000	000	000	000	000	000	000	000
45	.38	.35	.32	.29	.25	.22	.19	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	514	474	433	390	347	303	259	215	173	131	092	054	012	000	000	000	000	000	000	000	000	000	000	000
1600	.35	.32	.29	.26	.23	.19	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	477	437	395	352	308	264	220	176	133	092	052	015	000	000	000	000	000	000	000	000	000	000	000	000
15	.33	.29	.26	.23	.20	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	438	398	355	312	268	224	179	135	093	051	012	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.30	.26	.23	.20	.17	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	398	357	315	271	227	182	138	094	051	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.27	.23	.20	.17	.14	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	357	316	273	229	184	140	095	051	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 60 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.23	.20	.17	.14	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	315	273	230	186	141	096	052	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.20	.17	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	272	230	187	143	098	052	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	229	187	143	098	053	008	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.14	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	186	143	099	054	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.11	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	142	099	055	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	098	055	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	054	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 60 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	006	034
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	071	099
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.08	.10	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	006	042	076	108	137	164
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.13	.15	.17
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	030	074	109	143	174	203	230
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.15	.18	.20	.22
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	062	099	143	177	210	241	269	295
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.12	.15	.18	.20	.23	.25	.27
	000	000	000	000	000	000	000	000	000	000	000	000	000	019	056	093	131	168	211	245	277	307	335	360
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.06	.09	.12	.15	.17	.20	.23	.25	.28	.30	.32
	000	000	000	000	000	000	000	000	000	000	000	000	052	088	125	162	199	236	278	312	343	373	400	425
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.11	.14	.17	.19	.22	.25	.28	.30	.32	.34	.36
	000	000	000	000	000	000	000	000	000	005	034	066	120	156	193	230	267	303	345	378	409	438	464	488
15	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.10	.14	.16	.19	.22	.24	.27	.30	.33	.35	.37	.39	.41
	000	000	000	000	000	000	000	020	044	071	101	133	188	223	260	297	333	369	410	443	473	502	528	551
30	.01	.01	.01	.01	.02	.03	.04	.06	.08	.10	.12	.14	.18	.21	.24	.26	.29	.32	.35	.37	.39	.42	.44	.45
	011	011	013	019	029	043	060	085	110	137	167	199	254	290	326	362	398	434	474	505	536	564	589	612
45	.05	.05	.05	.06	.06	.07	.09	.11	.12	.14	.17	.19	.23	.26	.28	.31	.34	.36	.39	.42	.44	.46	.48	.50
	071	071	074	080	091	105	123	148	173	201	231	263	318	354	390	426	462	497	537	568	598	625	649	671

JAN-APR 40 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.09	.09	.09	.10	.11	.12	.13	.15	.17	.19	.21	.23	.27	.30	.33	.35	.38	.41	.44	.46	.48	.50	.52	.54
	129	129	133	140	151	166	184	210	235	263	294	326	381	417	453	488	524	558	597	628	657	683	707	728
15	.13	.13	.13	.14	.15	.16	.17	.19	.21	.23	.25	.28	.32	.34	.37	.40	.42	.45	.48	.50	.53	.55	.56	.58
	185	186	190	197	209	224	243	270	295	324	354	387	442	477	513	549	583	617	656	685	714	740	763	784
30	.17	.17	.17	.18	.19	.20	.21	.23	.25	.27	.30	.32	.36	.39	.41	.44	.47	.49	.52	.54	.57	.59	.60	.62
	239	240	244	252	265	280	300	327	353	382	413	445	500	535	571	606	641	674	712	741	769	794	816	836
45	.21	.21	.21	.22	.23	.24	.25	.27	.29	.31	.33	.36	.40	.42	.45	.48	.51	.53	.56	.58	.60	.62	.64	.66
	290	291	296	305	318	334	354	382	408	437	468	501	556	591	626	661	695	728	765	794	821	845	867	886
0900	.24	.24	.24	.25	.26	.27	.29	.31	.33	.35	.37	.40	.44	.46	.49	.52	.54	.57	.60	.62	.64	.66	.68	.69
	338	340	346	355	368	385	406	434	461	490	521	554	609	644	679	713	747	779	816	844	870	894	915	934
15	.27	.27	.28	.28	.29	.31	.32	.34	.36	.39	.41	.43	.47	.50	.53	.55	.58	.60	.63	.65	.67	.69	.71	.73
	384	386	392	402	416	434	454	483	511	540	571	604	659	694	728	762	795	827	863	891	916	939	960	978
30	.30	.30	.31	.32	.33	.34	.35	.38	.40	.42	.44	.47	.51	.53	.56	.59	.61	.64	.66	.68	.71	.72	.74	.76
	426	428	435	446	461	479	500	529	557	587	618	651	706	740	774	808	841	872	907	931	959	981	*001	*019
45	.33	.33	.34	.34	.36	.37	.38	.41	.43	.45	.47	.50	.54	.56	.59	.62	.64	.67	.69	.71	.73	.75	.77	.78
	465	468	475	487	502	520	542	572	600	630	662	695	749	783	817	850	882	913	947	974	998	*020	*039	*056
1000	.35	.36	.36	.37	.38	.40	.41	.43	.46	.48	.50	.53	.57	.59	.62	.64	.67	.69	.72	.74	.76	.78	.79	.81
	500	504	512	524	539	559	581	611	640	670	702	735	789	823	856	889	920	950	984	*010	*033	*055	*074	*090
15	.38	.38	.39	.39	.41	.42	.44	.46	.48	.50	.53	.55	.59	.62	.64	.67	.69	.72	.74	.76	.78	.80	.82	.83
	532	536	544	557	573	593	616	647	675	706	738	771	825	858	891	924	955	984	*017	*042	*065	*086	*104	*120
30	.40	.40	.41	.42	.43	.44	.46	.48	.50	.53	.55	.58	.62	.64	.67	.69	.72	.74	.76	.79	.80	.82	.84	.85
	559	564	573	587	604	624	647	679	707	738	770	803	856	890	923	954	985	*014	*046	*071	*093	*113	*131	*146
45	.41	.42	.42	.43	.45	.46	.48	.50	.52	.55	.57	.60	.64	.66	.69	.71	.73	.76	.78	.80	.82	.84	.85	.87
	583	588	599	612	630	651	674	706	735	766	798	831	884	917	950	981	*011	*039	*071	*095	*117	*136	*154	*169

JAN-APR 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																													
	JAN							FEB						MAR						APR										
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30						
1100	.43	.43	.44	.45	.46	.48	.50	.52	.54	.56	.59	.61	.65	.68	.70	.73	.75	.77	.80	.82	.84	.85	.87	.88						
	603	609	620	634	652	673	698	730	759	790	822	855	908	940	972	*003	*033	*061	*091	*115	*136	*155	*172	*187						
15	.44	.44	.45	.46	.47	.49	.51	.53	.55	.59	.60	.63	.67	.69	.72	.74	.76	.79	.81	.83	.85	.86	.88	.89						
	619	625	637	652	670	692	717	749	779	810	842	874	927	959	991	*021	*050	*078	*108	*131	*152	*170	*187	*201						
30	.45	.45	.46	.47	.48	.50	.52	.54	.57	.59	.61	.64	.68	.70	.73	.75	.77	.79	.82	.84	.86	.87	.89	.90						
	630	637	649	665	684	706	731	764	794	825	857	890	942	974	*005	*035	*063	*090	*120	*142	*163	*181	*197	*211						
45	.45	.46	.47	.48	.49	.51	.53	.55	.57	.60	.62	.65	.69	.71	.73	.76	.78	.80	.82	.84	.86	.88	.89	.90						
	638	645	658	674	694	716	742	775	805	836	868	900	952	984	*015	*044	*072	*098	*127	*149	*169	*187	*203	*216						
1200	.45	.46	.47	.48	.49	.51	.53	.56	.58	.60	.63	.65	.69	.71	.74	.76	.78	.80	.83	.84	.86	.88	.89	.90						
	641	649	662	679	699	722	748	781	811	843	874	907	959	990	*020	*049	*076	*102	*130	*152	*171	*189	*204	*218						
15	.45	.46	.47	.48	.50	.51	.53	.56	.58	.60	.63	.65	.69	.71	.74	.76	.78	.80	.83	.84	.86	.87	.89	.90						
	640	648	662	679	700	723	749	783	813	845	876	909	960	991	*020	*049	*076	*101	*129	*150	*169	*186	*201	*215						
30	.45	.45	.47	.48	.49	.51	.53	.55	.58	.60	.62	.65	.69	.71	.73	.76	.78	.80	.82	.84	.86	.87	.88	.90						
	634	643	657	675	696	720	747	781	811	842	874	906	956	987	*016	*045	*071	*096	*123	*144	*163	*179	*194	*207						
45	.44	.45	.46	.47	.49	.51	.52	.55	.57	.60	.62	.64	.68	.71	.73	.75	.77	.79	.81	.83	.85	.86	.87	.89						
	625	634	649	667	689	713	739	774	804	835	867	899	949	979	*008	*036	*062	*086	*113	*133	*152	*168	*183	*196						
1300	.43	.44	.45	.46	.48	.50	.52	.54	.56	.59	.61	.64	.67	.70	.72	.74	.76	.78	.80	.82	.84	.85	.86	.88						
	611	620	636	655	676	701	728	762	793	824	855	887	937	966	995	*022	*048	*072	*098	*118	*136	*153	*167	*180						
15	.42	.43	.44	.45	.47	.49	.51	.53	.55	.58	.60	.62	.66	.68	.71	.73	.75	.77	.79	.81	.82	.84	.85	.86						
	593	603	619	638	660	685	712	747	777	808	839	871	920	949	978	*005	*030	*053	*079	*099	*117	*133	*148	*160						
30	.40	.41	.42	.44	.45	.47	.49	.52	.54	.56	.59	.61	.65	.67	.69	.71	.73	.75	.77	.78	.80	.82	.83	.84						
	571	581	598	617	640	665	692	727	757	788	819	850	899	928	956	982	*007	*031	*056	*075	*093	*109	*124	*137						
45	.39	.39	.40	.42	.44	.45	.47	.50	.52	.54	.57	.59	.63	.65	.67	.69	.71	.73	.75	.77	.78	.80	.81	.82						
	545	556	572	592	615	640	668	703	733	764	795	826	874	902	930	956	981	*004	*029	*048	*066	*081	*096	*109						

JAN-APR 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
1400	.36	.37	.38	.40	.42	.43	.45	.48	.50	.52	.55	.57		.61	.63	.65	.67	.69	.71		.73	.75	.76	.77	.79	.80								
	515	526	543	563	587	612	639	674	704	735	766	797		844	873	900	926	950	972		997	*016	*034	*050	*064	*077								
15	.34	.35	.36	.38	.39	.41	.43	.46	.48	.50	.52	.55		.58	.60	.63	.65	.67	.68		.70	.72	.73	.75	.76	.77								
	481	493	510	531	554	580	607	642	672	703	733	764		811	839	866	891	915	937		962	981	998	*014	*029	*042								
30	.31	.32	.34	.35	.37	.39	.41	.43	.45	.48	.50	.52		.56	.58	.60	.62	.64	.65		.68	.69	.71	.72	.73	.74								
	444	456	474	494	518	544	571	606	636	666	697	727		773	801	828	853	876	899		923	942	959	975	990	*003								
45	.29	.29	.31	.32	.34	.36	.38	.40	.42	.45	.47	.49		.53	.55	.57	.59	.61	.62		.64	.66	.67	.69	.70	.71								
	403	415	433	455	478	504	532	566	596	626	656	686		732	760	786	811	834	856		880	899	916	933	947	961								
1500	.25	.26	.28	.29	.31	.33	.35	.37	.39	.42	.44	.46		.49	.52	.54	.55	.57	.59		.61	.63	.64	.65	.67	.68								
	359	372	390	411	435	461	488	523	553	583	612	642		688	715	741	765	788	810		834	853	871	887	902	916								
15	.22	.23	.24	.26	.28	.29	.31	.34	.36	.38	.40	.43		.46	.48	.50	.52	.54	.55		.57	.59	.60	.62	.63	.64								
	312	325	344	365	389	415	442	476	506	536	565	594		639	666	692	716	739	761		785	804	821	838	853	867								
30	.19	.19	.21	.22	.24	.26	.28	.30	.32	.35	.37	.39		.42	.44	.46	.48	.50	.52		.54	.55	.57	.58	.59	.61								
	262	275	294	316	339	365	392	427	456	485	515	544		586	615	640	664	687	709		733	752	769	786	801	816								
45	.15	.16	.17	.19	.20	.22	.24	.27	.29	.31	.33	.35		.39	.40	.42	.44	.46	.48		.50	.51	.53	.54	.55	.57								
	210	223	242	263	287	313	340	374	403	432	461	490		534	560	586	610	632	654		678	697	715	732	747	762								
1600	.11	.12	.13	.15	.16	.18	.20	.23	.25	.27	.29	.31		.34	.36	.38	.40	.42	.43		.45	.47	.48	.50	.51	.52								
	155	168	187	209	232	258	285	319	348	376	405	433		477	503	528	552	575	596		621	640	658	675	691	706								
15	.07	.08	.09	.11	.12	.14	.16	.19	.21	.23	.25	.27		.30	.32	.34	.36	.37	.39		.41	.43	.44	.45	.47	.48								
	098	111	130	152	175	201	228	261	290	318	347	375		418	444	469	492	515	536		561	580	598	616	632	648								
30	.03	.04	.05	.07	.08	.10	.12	.14	.16	.18	.20	.22		.26	.28	.29	.31	.33	.35		.37	.38	.40	.41	.42	.44								
	039	052	071	093	116	141	168	201	229	259	286	313		356	382	407	430	453	474		499	518	537	555	572	588								
45	.00	.00	.01	.02	.04	.06	.08	.10	.12	.14	.16	.18		.21	.23	.25	.27	.28	.30		.32	.33	.35	.36	.38	.39								
	000	000	010	032	055	080	107	139	167	195	223	250		293	318	343	366	389	411		435	455	474	492	510	526								

JAN-APR 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																											
	JAN							FEB					MAR						APR									
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30				
1700	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.13	.16	.18	.20	.22	.24	.25	.27	.29	.30	.32	.33	.34				
	000	000	000	000	000	017	043	076	103	131	158	185	228	253	277	301	324	345	370	390	410	428	446	464				
15	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.12	.13	.15	.17	.19	.20	.22	.24	.25	.27	.28	.30				
	000	000	000	000	000	000	000	011	038	065	092	119	161	186	211	234	257	279	304	325	344	363	382	400				
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.09	.10	.12	.14	.15	.17	.19	.20	.22	.23	.25				
	000	000	000	000	000	000	000	000	000	000	025	052	093	118	143	166	189	211	237	258	278	297	316	335				
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.07	.09	.10	.12	.14	.16	.17	.19	.20				
	000	000	000	000	000	000	000	000	000	000	000	000	025	050	074	098	121	143	169	190	211	231	251	270				
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.05	.07	.09	.11	.12	.14	.15				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	005	029	052	074	101	123	144	164	185	204				
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.07	.09	.10				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	006	033	055	076	098	118	139				
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.04	.06				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	009	031	053	074				
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01				
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	009				

JAN-APR 40 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.01	.02	.02	.03	.03	.03	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	010	021	031	035	036	034	030	023	014	002	000	000	000	000	000	000	000	000	000	000
0500	.00	.01	.03	.04	.05	.06	.07	.07	.07	.07	.07	.06	.05	.05	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00
	000	019	040	056	070	081	090	093	094	093	088	081	072	061	047	033	016	000	000	000	000	000	000	000
15	.04	.06	.08	.09	.10	.11	.11	.12	.12	.12	.11	.11	.10	.09	.08	.07	.06	.05	.03	.01	.00	.00	.00	.00
	060	082	102	118	131	142	150	153	154	152	147	140	131	120	107	093	077	060	038	019	000	000	000	000
30	.09	.11	.12	.14	.15	.15	.16	.16	.16	.16	.16	.15	.15	.14	.13	.12	.10	.09	.08	.06	.05	.03	.02	.00
	124	146	165	181	193	203	211	214	214	212	207	200	191	180	168	154	138	122	101	082	064	044	025	005
45	.14	.16	.17	.18	.19	.20	.21	.21	.21	.21	.20	.20	.19	.18	.17	.16	.15	.14	.12	.11	.10	.08	.07	.05
	188	210	228	243	256	265	272	275	275	273	269	261	252	241	229	215	200	184	164	146	128	109	090	071
0600	.19	.20	.22	.23	.24	.25	.25	.25	.25	.25	.25	.24	.24	.23	.22	.21	.20	.19	.17	.16	.14	.13	.12	.10
	253	274	292	306	318	327	333	336	336	334	329	322	313	303	291	277	263	247	228	210	193	175	156	137
15	.24	.25	.27	.28	.29	.29	.30	.30	.30	.30	.29	.29	.28	.28	.27	.26	.25	.23	.22	.21	.19	.18	.17	.15
	318	338	355	369	381	389	395	397	397	394	390	383	374	364	352	339	325	310	291	275	258	240	222	204
30	.28	.30	.31	.32	.33	.34	.34	.35	.35	.34	.34	.34	.33	.32	.31	.30	.29	.28	.27	.25	.24	.23	.22	.20
	383	402	418	432	443	450	456	458	458	455	450	444	435	425	414	401	388	373	355	339	322	305	288	270
45	.33	.35	.36	.37	.38	.38	.39	.39	.39	.39	.39	.38	.37	.37	.36	.35	.34	.33	.31	.30	.29	.28	.26	.25
	446	465	481	494	504	512	517	519	518	515	511	504	496	486	475	463	450	436	418	402	386	370	353	336

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700		.38	.39	.41	.42	.42	.43	.43	.44	.44	.43	.43	.43	.42	.41	.40	.40	.39	.37	.36	.35	.34	.32	.31	.30
		509	527	543	555	565	572	577	578	578	575	570	564	556	546	536	524	511	497	480	465	450	434	417	400
15		.42	.44	.45	.46	.47	.47	.48	.48	.48	.48	.48	.47	.46	.46	.45	.44	.43	.42	.41	.40	.38	.37	.36	.35
		571	589	603	615	624	631	636	637	636	633	629	622	614	605	595	584	571	558	542	527	512	497	481	464
30		.47	.48	.50	.50	.51	.52	.52	.52	.52	.52	.52	.51	.51	.50	.49	.48	.48	.47	.45	.44	.43	.42	.41	.39
		631	648	663	674	683	689	693	694	693	690	686	680	672	663	653	642	631	618	602	589	573	558	543	526
45		.51	.53	.54	.55	.55	.56	.56	.57	.57	.56	.56	.56	.55	.54	.54	.53	.52	.51	.50	.49	.47	.46	.45	.44
		690	706	720	731	739	745	749	750	749	746	742	736	728	720	710	700	688	676	661	647	633	618	603	587
0800		.56	.57	.58	.59	.60	.60	.60	.61	.61	.60	.60	.60	.59	.59	.58	.57	.56	.55	.54	.53	.52	.51	.49	.48
		747	763	776	786	794	799	803	804	803	800	796	790	783	775	765	755	744	733	718	705	691	677	662	646
15		.60	.61	.62	.63	.64	.64	.64	.65	.64	.64	.64	.64	.63	.63	.62	.61	.60	.59	.58	.57	.56	.55	.54	.52
		801	817	829	839	847	852	855	856	855	852	848	842	835	827	819	809	798	787	773	760	747	733	718	702
30		.63	.65	.66	.67	.67	.68	.68	.68	.68	.68	.68	.67	.67	.66	.66	.65	.64	.63	.62	.61	.60	.59	.58	.56
		854	868	880	890	897	902	905	906	904	902	898	892	886	878	870	860	850	839	825	813	800	786	772	756
45		.67	.68	.69	.70	.71	.71	.72	.72	.72	.72	.71	.71	.71	.70	.69	.69	.68	.67	.66	.65	.64	.63	.61	.60
		903	917	929	938	945	949	952	953	952	949	945	940	934	926	918	909	900	889	876	864	851	838	823	808
0900		.71	.72	.73	.74	.74	.75	.75	.75	.75	.75	.75	.74	.74	.73	.73	.72	.71	.71	.69	.68	.67	.66	.65	.64
		950	963	974	983	990	994	997	997	996	994	990	985	979	972	964	956	947	936	923	912	899	886	872	857
15		.74	.75	.76	.77	.77	.78	.78	.78	.78	.78	.78	.78	.77	.77	.76	.75	.75	.74	.73	.72	.71	.70	.68	.67
		993	*006	*017	*025	*032	*036	*039	*039	*038	*036	*032	*027	*022	*015	*008	*000	991	981	968	957	945	932	917	902
30		.77	.78	.79	.80	.80	.81	.81	.81	.81	.81	.81	.81	.80	.80	.79	.79	.78	.77	.76	.75	.74	.73	.72	.70
		*034	*046	*057	*065	*071	*075	*077	*078	*077	*075	*071	*067	*061	*055	*048	*040	*032	*022	*010	999	987	974	960	945
45		.80	.81	.82	.82	.83	.83	.84	.84	.84	.84	.84	.83	.83	.83	.82	.81	.81	.80	.79	.78	.77	.76	.75	.73
		*071	*083	*093	*101	*106	*110	*113	*113	*113	*110	*107	*103	*098	*092	*085	*078	*069	*060	*048	*038	*026	*013	999	984

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.82	.83	.84	.85	.85	.86	.86	.86	.86	.86	.86	.86	.85	.85	.85	.84	.83	.82	.81	.81	.79	.78	.77	.76
	*104	*116	*125	*133	*139	*143	*145	*146	*145	*143	*140	*136	*131	*126	*119	*112	*104	*095	*084	*073	*061	*048	*034	*019
15	.84	.85	.86	.87	.88	.88	.88	.88	.89	.88	.88	.88	.88	.87	.87	.86	.86	.85	.84	.83	.82	.81	.80	.78
	*134	*145	*155	*162	*167	*171	*174	*174	*174	*172	*169	*166	*161	*156	*150	*143	*135	*127	*115	*101	*088	*080	*066	*050
30	.86	.87	.88	.89	.89	.90	.90	.90	.90	.90	.90	.90	.90	.89	.89	.88	.88	.87	.86	.85	.84	.83	.82	.80
	*160	*171	*180	*187	*192	*196	*199	*199	*199	*197	*195	*192	*187	*182	*177	*170	*163	*154	*143	*132	*121	*108	*094	*078
45	.88	.89	.90	.90	.91	.91	.92	.92	.92	.92	.92	.92	.91	.91	.91	.90	.89	.89	.88	.87	.86	.85	.83	.82
	*182	*192	*201	*208	*213	*217	*220	*221	*221	*219	*217	*214	*210	*205	*200	*193	*186	*178	*167	*156	*145	*132	*117	*102
1100	.89	.90	.91	.92	.92	.93	.93	.93	.93	.93	.93	.93	.93	.93	.92	.92	.91	.90	.89	.88	.87	.86	.85	.83
	*199	*210	*219	*226	*231	*235	*237	*238	*238	*237	*235	*232	*229	*224	*219	*213	*206	*198	*187	*177	*165	*152	*137	*121
15	.90	.91	.92	.93	.93	.94	.94	.94	.94	.94	.94	.94	.94	.94	.93	.93	.92	.91	.90	.90	.88	.87	.86	.85
	*213	*224	*232	*239	*244	*248	*251	*252	*252	*251	*250	*247	*244	*240	*235	*229	*222	*214	*203	*193	*181	*168	*153	*136
30	.91	.92	.93	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89	.88	.87	.85
	*223	*233	*241	*248	*253	*257	*260	*262	*262	*262	*260	*258	*255	*251	*246	*241	*234	*226	*215	*205	*193	*179	*164	*147
45	.91	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89	.87	.86
	*228	*238	*247	*253	*259	*263	*266	*268	*268	*268	*267	*265	*262	*258	*254	*248	*242	*234	*223	*212	*200	*187	*171	*154
1200	.91	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.92	.91	.90	.89	.88	.86
	*229	*239	*248	*254	*260	*264	*268	*269	*270	*270	*269	*268	*265	*262	*258	*252	*246	*238	*227	*215	*204	*190	*174	*157
15	.91	.92	.93	.94	.94	.95	.95	.95	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.92	.91	.90	.89	.87	.86
	*226	*236	*244	*251	*257	*261	*265	*267	*268	*269	*268	*267	*264	*261	*257	*252	*245	*238	*227	*215	*203	*189	*173	*155
30	.91	.92	.92	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.93	.92	.91	.90	.88	.87	.85
	*219	*229	*237	*244	*250	*254	*259	*261	*262	*263	*263	*262	*260	*257	*253	*247	*241	*233	*222	*211	*198	*183	*167	*148
45	.90	.91	.92	.92	.93	.93	.94	.94	.94	.95	.95	.95	.95	.94	.94	.93	.93	.92	.91	.90	.89	.88	.86	.85
	*207	*217	*226	*233	*239	*244	*248	*251	*253	*253	*253	*253	*251	*248	*244	*239	*233	*225	*213	*202	*189	*174	*157	*138

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/W**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
1300	.89	.90	.90	.91	.92	.92	.93	.93	.93	.94	.94	.94	.94	.93	.93	.93	.92	.91	.90	.89	.88	.87	.85	.84
	*192	*202	*210	*217	*224	*229	*234	*237	*239	*240	*240	*240	*238	*235	*232	*227	*220	*212	*200	*189	*175	160	*142	*123
15	.87	.88	.89	.90	.90	.91	.91	.92	.92	.92	.92	.92	.92	.92	.92	.91	.91	.90	.89	.88	.87	.85	.84	.82
	*172	*182	*191	*198	*205	*210	*215	*219	*221	*223	*223	*223	*221	*219	*215	*210	*204	*196	*184	*172	*158	*142	*124	*104
30	.85	.86	.87	.88	.89	.89	.90	.90	.90	.91	.91	.91	.91	.91	.90	.90	.89	.88	.87	.86	.85	.84	.82	.80
	*148	*158	*167	*175	*182	*187	*193	*197	*200	*201	*202	*202	*201	*199	*195	*190	*183	*175	*163	*150	*136	*120	*101	*080
45	.83	.84	.85	.86	.87	.87	.88	.88	.89	.89	.89	.89	.89	.89	.88	.88	.87	.87	.86	.84	.83	.82	.80	.78
	*120	*131	*140	*148	*155	*161	*167	*171	*174	*177	*178	*178	*177	*175	*171	*166	*159	*151	*138	*125	*110	*094	*074	*053
1400	.81	.82	.83	.84	.84	.85	.86	.86	.86	.87	.87	.87	.87	.87	.86	.86	.85	.85	.83	.82	.81	.80	.78	.76
	*089	*100	*109	*117	*125	*131	*138	*142	*146	*148	*150	*150	*149	*147	*143	*138	*131	*122	*109	*095	*081	*064	*044	*022
15	.78	.79	.80	.81	.82	.82	.83	.84	.84	.84	.84	.85	.84	.84	.84	.84	.83	.82	.81	.80	.79	.77	.75	.73
	*054	*065	*075	*083	*091	*098	*105	*110	*113	*116	*118	*118	*118	*116	*112	*107	*100	*091	*077	*064	*048	*030	*010	987
30	.75	.76	.77	.78	.79	.80	.80	.81	.81	82	.82	.82	.82	.82	.81	.81	.80	.79	.78	.77	.76	.74	.72	.71
	*015	*026	*037	*046	*054	*061	*069	*074	*078	*081	*083	*084	*083	*081	*077	*072	*065	*055	*042	*023	*011	993	972	948
45	.72	.73	.74	.75	.76	.77	.77	.78	.78	.79	.79	.79	.79	.79	.78	.78	.77	.77	.75	.74	.73	.71	.69	.67
	973	985	995	*005	*014	*021	*029	*035	*039	*043	*045	*046	*045	*043	*039	*034	*026	*017	*002	988	971	952	930	906
1500	.69	.70	.71	.72	73	.73	.74	.75	.75	.76	.76	.76	.76	.76	.75	.75	.74	.73	.72	.71	.70	.68	.66	.64
	928	940	951	961	970	978	987	993	997	*001	*004	*005	*004	*002	998	993	985	975	960	945	928	908	886	861
15	.65	.67	.68	.68	.69	.70	.71	.71	.72	.72	.72	.73	.73	.72	.72	.72	.71	.70	.69	.68	.66	.64	.63	.60
	880	893	904	914	924	932	941	948	953	957	959	961	960	958	954	948	940	930	915	899	881	861	838	813
30	.62	.63	.64	.65	.66	.66	.67	.68	.68	.69	.69	.69	.69	.69	.69	.68	.67	.66	.65	.64	.62	.61	.59	.57
	830	842	854	865	875	884	894	900	906	910	913	914	914	912	908	901	893	883	867	851	832	811	787	761
45	.58	.59	.60	.61	.62	.63	.63	.64	.65	.65	.65	.65	.65	.65	.65	.64	.64	.63	.61	.60	.58	.57	.55	.53
	776	789	802	813	824	833	843	850	856	861	864	865	865	863	858	852	843	832	816	799	780	758	734	707

DATE

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1600	.54	.55	.56	.57	.58	.59	.60	.60	.61	.61	.61	.61	.61	.61	.61	.60	.60	.59	.57	.56	.54	.53	.51	.48
	721	734	747	759	770	780	791	798	804	809	812	814	813	811	807	800	791	780	763	745	726	703	676	651
15	.49	.50	.52	.53	.54	.54	.55	.56	.57	.57	.57	.57	.57	.57	.57	.56	.56	.55	.53	.52	.50	.48	.46	.44
	663	677	691	703	714	725	736	744	750	755	759	760	760	758	753	746	737	725	707	690	669	646	620	593
30	.45	.46	.47	.48	.49	.50	.51	.52	.52	.53	.53	.53	.53	.53	.53	.52	.51	.50	.49	.47	.46	.44	.42	.40
	604	618	632	645	657	668	680	688	695	700	704	705	705	702	698	690	681	668	650	632	611	587	561	532
45	.40	.42	.43	.44	.45	.46	.47	.48	.48	.49	.49	.49	.49	.49	.48	.48	.47	.46	.44	.43	.41	.39	.37	.35
	543	558	572	586	598	610	622	631	638	643	647	648	648	645	640	633	623	610	591	572	550	526	499	470
1700	.36	.37	.38	.39	.40	.41	.42	.43	.44	.44	.44	.45	.45	.44	.44	.43	.42	.41	.40	.38	.37	.35	.33	.30
	480	496	511	525	538	550	563	572	579	585	589	590	590	587	582	574	563	550	530	511	489	464	436	406
15	.31	.32	.34	.35	.36	.37	.38	.39	.39	.40	.40	.40	.40	.40	.39	.39	.38	.37	.35	.34	.32	.30	.28	.25
	417	433	449	464	477	490	503	512	520	526	529	531	531	528	522	514	503	489	469	449	426	400	372	342
30	.26	.28	.29	.30	.31	.32	.33	.34	.35	.35	.35	.36	.36	.35	.35	.34	.33	.32	.31	.29	.27	.25	.23	.21
	353	370	386	401	415	428	442	452	459	465	469	471	470	467	461	453	441	427	406	385	362	336	307	276
45	.21	.23	.24	.25	.27	.28	.29	.29	.30	.31	.31	.31	.31	.31	.30	.30	.29	.27	.26	.24	.22	.20	.18	.16
	288	306	322	338	353	366	381	391	399	405	409	410	410	406	400	391	379	365	343	322	298	271	241	210
1800	.17	.18	.19	.21	.22	.23	.24	.25	.26	.26	.26	.26	.26	.26	.26	.25	.24	.23	.21	.19	.17	.15	.13	.11
	223	241	259	275	290	304	319	329	338	344	348	350	349	345	339	329	317	302	279	258	233	205	176	143
15	.12	.13	.15	.16	.17	.18	.19	.20	.21	.21	.22	.22	.22	.21	.21	.20	.19	.18	.16	.15	.13	.11	.08	.06
	158	177	195	212	228	242	257	268	277	283	287	289	287	284	277	267	254	239	216	193	168	140	110	077
30	.07	.08	.10	.11	.12	.14	.15	.16	.16	.17	.17	.17	.17	.17	.16	.16	.15	.13	.11	.10	.08	.06	.03	.01
	094	113	132	150	166	181	196	207	216	222	226	228	226	222	215	205	192	176	152	129	103	075	044	011
45	.02	.04	.05	.07	.08	.09	.10	.11	.12	.12	.13	.13	.13	.12	.12	.11	.10	.09	.07	.05	.03	.01	.00	.00
	030	050	069	088	104	120	135	147	156	162	166	167	166	162	154	144	130	113	089	065	039	010	000	000

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900	.00	.00	.01	.02	.03	.04	.06	.07	.07	.08	.08	.08	.08	.08	.07	.06	.05	.04	.02	.00	.00	.00	.00	.00
	000	000	008	026	044	059	076	087	096	103	107	108	106	101	094	083	069	051	027	003	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.01	.02	.03	.03	.04	.04	.04	.03	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	017	028	038	044	048	049	047	042	034	023	008	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 40 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	047	027	006	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.09	.07	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	114	094	074	053	032	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.13	.12	.11	.09	.07	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	181	162	142	121	100	079	056	033	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.17	.15	.14	.12	.11	.09	.07	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	248	229	209	189	168	146	124	100	076	051	026	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.23	.22	.20	.19	.17	.16	.14	.12	.10	.09	.07	.05	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	314	295	276	256	235	213	191	167	143	118	092	066	034	008	000	000	000	000	000	000	000	000	000	000
0700	.28	.27	.25	.24	.22	.20	.19	.17	.15	.13	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00
	379	361	342	322	301	279	257	233	208	183	157	130	098	072	046	020	000	000	000	000	000	000	000	000
15	.33	.31	.30	.28	.27	.25	.23	.22	.20	.18	.16	.14	.12	.10	.08	.06	.04	.03	.01	.00	.00	.00	.00	.00
	443	425	406	386	366	344	321	297	272	247	221	194	161	134	108	082	058	035	014	000	000	000	000	000
30	.38	.36	.35	.33	.31	.30	.28	.26	.24	.22	.20	.18	.16	.14	.12	.10	.08	.07	.05	.04	.03	.02	.01	.01
	506	488	469	449	429	407	384	360	335	309	282	255	223	195	169	143	118	096	075	056	041	028	019	013
45	.42	.41	.39	.38	.36	.34	.32	.31	.29	.27	.25	.23	.20	.18	.16	.14	.13	.11	.10	.08	.07	.06	.06	.05
	567	549	530	511	490	468	445	420	395	369	342	315	282	254	228	202	177	154	133	115	100	087	078	073

SEP-DEC 40 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.46	.45	.44	.42	.40	.39	.37	.35	.33	.31	.29	.27	.24	.22	.20	.18	.17	.15	.14	.12	.11	.10	.10	.09
	626	608	589	570	549	527	503	479	453	427	400	372	333	311	284	258	233	210	190	172	156	144	136	130
15	.51	.49	.48	.46	.44	.43	.41	.39	.37	.35	.33	.31	.28	.26	.24	.22	.20	.19	.17	.16	.15	.14	.14	.13
	682	665	646	626	605	583	560	535	509	482	455	427	395	366	338	312	287	265	244	225	211	199	191	186
30	.55	.53	.52	.50	.48	.47	.45	.43	.41	.39	.37	.35	.32	.30	.28	.26	.24	.22	.21	.20	.19	.18	.17	.17
	737	719	700	681	659	637	613	588	562	535	507	479	445	417	390	364	339	316	296	276	263	252	244	240
45	.59	.57	.55	.54	.52	.50	.48	.46	.44	.42	.40	.38	.35	.33	.31	.29	.28	.26	.24	.23	.22	.21	.21	.21
	788	771	752	732	710	688	664	638	612	585	557	528	494	466	439	412	388	365	345	327	313	302	294	290
0900	.62	.61	.59	.57	.56	.54	.52	.50	.48	.46	.44	.41	.39	.37	.35	.33	.31	.29	.28	.26	.25	.25	.24	.24
	837	819	800	780	759	736	711	686	659	631	603	574	540	512	484	458	433	411	391	373	359	349	342	338
15	.66	.64	.62	.61	.59	.57	.55	.53	.51	.49	.47	.44	.42	.40	.38	.36	.34	.32	.31	.30	.29	.28	.27	.27
	883	865	846	825	803	780	755	729	702	675	646	617	582	554	526	500	476	453	433	417	403	393	386	384
30	.69	.67	.66	.64	.62	.60	.58	.56	.54	.52	.49	.47	.45	.42	.40	.38	.37	.35	.34	.32	.31	.31	.30	.30
	925	907	888	867	845	821	796	770	742	714	685	656	621	593	565	539	515	493	473	456	443	433	427	425
45	.72	.70	.68	.67	.65	.63	.61	.59	.57	.54	.52	.50	.47	.45	.43	.41	.39	.38	.36	.35	.34	.33	.33	.33
	964	945	926	905	882	858	833	806	779	750	721	692	657	628	601	574	550	528	509	493	480	471	465	464
1000	.74	.73	.71	.69	.67	.65	.63	.61	.59	.57	.54	.52	.49	.47	.45	.43	.41	.40	.38	.37	.36	.36	.35	.35
	999	980	960	939	916	892	866	839	811	782	753	723	688	660	632	606	582	560	541	525	513	505	500	499
15	.76	.75	.73	.71	.69	.67	.65	.63	.61	.59	.56	.54	.51	.49	.47	.45	.43	.42	.40	.39	.38	.38	.38	.38
	*030	*011	991	969	946	921	895	868	839	810	781	751	716	687	660	634	610	588	570	555	543	535	531	530
30	.78	.77	.75	.73	.71	.69	.67	.65	.63	.60	.58	.56	.53	.51	.49	.47	.45	.44	.42	.41	.40	.40	.39	.39
	*057	*038	*018	996	972	947	920	892	864	834	804	774	739	710	683	657	634	613	595	580	569	561	557	558
45	.80	.79	.77	.75	.73	.71	.69	.66	.64	.62	.59	.57	.54	.52	.50	.48	.47	.45	.44	.43	.42	.41	.41	.41
	*081	*061	*040	*018	994	968	941	913	884	854	824	794	758	730	702	677	654	633	615	601	590	583	580	581

SEP-DEC 40 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.82	.80	.78	.76	.74	.72	.70	.68	.65	.63	.61	.58	.55	.53	.51	.49	.48	.46	.45	.44	.43	.43	.42	.43
	*100	*080	*059	*036	*011	985	957	929	899	869	839	809	773	745	718	692	669	649	632	618	608	602	599	601
15	.83	.81	.79	.77	.75	.73	.71	.68	.66	.64	.61	.59	.56	.54	.52	.50	.48	.47	.46	.45	.44	.44	.43	.44
	*114	*094	*073	*049	*024	997	969	940	911	880	850	819	784	755	728	703	681	661	644	631	621	616	614	616
30	.83	.82	.80	.78	.76	.74	.71	.69	.67	.64	.62	.59	.57	.55	.53	.51	.49	.48	.46	.45	.45	.44	.44	.44
	*125	*104	*082	*058	*032	*005	977	948	917	887	856	826	790	762	735	710	688	669	652	640	631	626	625	628
45	.84	.82	.80	.78	.76	.74	.72	.69	.67	.64	.62	.60	.57	.55	.53	.51	.49	.48	.47	.46	.45	.45	.45	.45
	*131	*110	*087	*063	*037	*009	980	950	920	889	858	827	792	764	737	713	691	672	656	644	636	631	631	635
1200	.84	.82	.80	.78	.76	.74	.71	.69	.67	.64	.62	.59	.57	.55	.53	.51	.49	.48	.47	.46	.45	.45	.45	.45
	*133	*111	*088	*063	*036	*008	979	949	918	886	855	825	789	761	735	711	689	671	656	644	637	633	633	638
15	.84	.82	.80	.78	.76	.73	.71	.69	.66	.64	.61	.59	.56	.54	.52	.50	.49	.47	.46	.45	.45	.45	.45	.45
	*130	*108	*084	*059	*031	*003	973	942	911	880	848	818	782	754	728	705	684	666	651	640	633	630	631	636
30	.83	.81	.79	.77	.75	.73	.70	.68	.65	.63	.60	.58	.55	.53	.51	.50	.48	.47	.46	.45	.44	.44	.44	.45
	*123	*101	*076	*050	*022	993	963	932	900	868	837	806	771	743	718	694	674	656	642	632	626	623	625	630
45	.83	.81	.79	.76	.74	.72	.69	.67	.64	.62	.59	.57	.54	.52	.50	.48	.47	.46	.45	.44	.43	.43	.43	.44
	*112	*089	*064	*037	*008	979	948	916	885	853	821	791	755	728	702	680	659	643	629	620	614	612	614	621
1300	.81	.79	.77	.75	.73	.70	.68	.65	.63	.60	.58	.55	.53	.51	.49	.47	.46	.44	.43	.43	.42	.42	.42	.43
	*097	*073	*047	*019	990	960	929	897	865	833	801	770	735	708	683	661	641	625	612	603	598	597	599	606
15	.80	.78	.76	.73	.71	.69	.66	.64	.61	.59	.56	.54	.51	.49	.47	.45	.44	.43	.42	.41	.41	.41	.41	.42
	*077	*052	*026	998	968	937	906	873	841	809	777	746	711	684	660	638	618	603	590	582	578	577	581	588
30	.78	.76	.74	.72	.69	.67	.64	.62	.59	.56	.54	.52	.49	.47	.45	.44	.42	.41	.40	.40	.39	.39	.39	.40
	*053	*028	*000	972	942	910	878	845	813	780	749	718	683	656	632	610	592	577	565	557	553	554	558	566
45	.76	.74	.72	.69	.67	.64	.62	.59	.57	.54	.52	.49	.47	.45	.43	.41	.40	.39	.38	.37	.37	.37	.38	.38
	*025	999	971	942	911	879	847	814	781	748	716	686	651	625	601	579	561	547	536	529	525	526	531	539

SEP-DEC 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.74	.72	.69	.67	.64	.62	.59	.57	.54	.52	.49	.47	.44	.42	.40	.39	.38	.36	.36	.35	.35	.35	.35	.36
		993	966	938	908	877	844	811	778	745	712	680	649	615	589	565	545	527	513	503	493	494	495	500	509
15		.71	.69	.66	.64	.62	.59	.56	.54	.51	.49	.46	.44	.41	.39	.38	.36	.35	.34	.33	.33	.32	.33	.33	.34
		957	930	901	870	838	805	772	738	705	672	640	610	576	550	527	506	489	476	466	462	458	460	466	475
30		.68	.66	.63	.61	.58	.56	.53	.51	.48	.46	.43	.41	.38	.36	.35	.33	.32	.31	.30	.30	.30	.30	.30	.31
		918	890	860	829	796	763	729	695	662	629	597	566	533	507	484	465	448	435	426	421	419	422	428	438
45		.65	.63	.60	.58	.55	.53	.50	.47	.45	.42	.40	.37	.35	.33	.31	.30	.29	.28	.27	.27	.27	.27	.27	.28
		875	846	816	784	751	717	683	649	615	582	550	520	486	461	439	419	404	391	382	378	377	380	387	397
1500		.61	.59	.57	.54	.52	.49	.46	.44	.41	.39	.36	.34	.31	.30	.28	.27	.25	.24	.24	.24	.23	.24	.24	.25
		829	799	768	735	703	668	634	599	565	532	500	470	437	412	390	371	356	344	336	332	331	335	342	353
15		.58	.55	.53	.50	.48	.45	.42	.40	.37	.35	.32	.30	.28	.26	.24	.23	.22	.21	.20	.20	.20	.20	.21	.22
		779	750	718	685	651	616	581	546	512	479	447	417	385	360	339	320	305	294	287	283	283	287	295	306
30		.54	.52	.49	.46	.44	.41	.38	.36	.33	.31	.28	.26	.24	.22	.20	.19	.18	.17	.17	.16	.16	.17	.17	.18
		727	697	665	631	596	561	526	491	457	423	392	362	330	305	284	266	252	241	234	231	232	236	244	256
45		.50	.47	.45	.42	.40	.37	.34	.32	.29	.26	.24	.22	.20	.18	.16	.15	.14	.13	.13	.13	.13	.13	.14	.14
		673	641	609	574	539	504	468	433	399	365	334	304	272	248	228	210	196	186	180	177	178	183	191	203
1600		.46	.43	.41	.38	.35	.33	.30	.27	.25	.22	.20	.18	.15	.14	.12	.11	.10	.09	.09	.09	.09	.09	.10	.11
		615	584	550	516	480	444	408	373	338	305	274	244	213	189	169	152	139	129	123	121	122	127	136	148
15		.41	.39	.36	.33	.31	.28	.25	.23	.20	.18	.15	.13	.11	.09	.08	.07	.06	.05	.05	.04	.05	.05	.06	.06
		556	524	490	455	419	382	346	311	276	243	212	182	151	128	109	092	079	070	064	062	064	070	079	091
30		.37	.34	.32	.29	.26	.23	.21	.18	.15	.13	.11	.09	.06	.05	.03	.02	.01	.01	.00	.00	.00	.01	.01	.02
		495	462	427	392	355	319	282	247	212	179	148	119	088	065	046	030	017	009	003	002	004	010	019	032
45		.32	.30	.27	.24	.21	.19	.16	.13	.11	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		432	398	363	327	291	254	217	181	147	114	083	054	023	001	000	000	000	000	000	000	000	000	000	000

SEP-DEC 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.27	.25	.22	.19	.17	.14	.11	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	368	334	298	261	224	187	151	115	080	047	016	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.22	.20	.17	.14	.12	.09	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	302	268	232	195	157	120	083	047	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.18	.15	.12	.09	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	236	201	164	127	090	052	015	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.13	.10	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	169	134	097	059	021	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
1800	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	102	066	029	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	035	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 40 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.01	.03	.04								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	014	034	051								
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.02	.04	.06	.07	.09	.10								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	001		030	054	076	096	115	131								
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.01	.03	.04	.06		.08	.10	.12	.13	.15	.16								
	000	000	000	000	000	000	000	000	000	000	000	000		000	000	011	035	060	085		114	137	158	178	196	211								
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01		.04	.05	.07	.09	.11	.12		.14	.16	.18	.19	.20	.22								
	000	000	000	000	000	000	000	000	000	000	000	015		049	072	096	120	145	169		197	220	240	259	276	291								
45	.02	.02	.01	.01	.01	.02	.02	.03	.04	.05	.06	.07		.10	.11	.13	.15	.17	.18		.21	.22	.24	.25	.26	.27								
	031	025	020	018	018	021	027	037	049	064	080	099		133	156	180	204	229	253		280	302	322	340	356	370								
0700	.08	.07	.07	.07	.07	.07	.08	.09	.09	.10	.12	.13		.16	.17	.19	.21	.23	.24		.26	.28	.30	.31	.32	.33								
	109	104	099	098	098	102	108	119	132	147	164	183		217	240	264	288	312	335		362	383	402	420	435	448								
15	.13	.13	.13	.12	.13	.13	.13	.14	.15	.16	.18	.19		.22	.23	.25	.27	.29	.30		.32	.34	.35	.37	.38	.39								
	186	181	177	176	177	181	188	200	213	228	246	265		300	322	346	370	393	416		442	463	481	498	512	525								
30	.19	.18	.18	.18	.18	.18	.19	.20	.21	.22	.23	.25		.27	.29	.31	.33	.34	.36		.38	.40	.41	.42	.44	.44								
	262	257	254	253	255	260	267	280	293	309	327	346		381	403	427	450	473	496		521	541	558	574	588	600								
45	.24	.23	.23	.23	.23	.24	.24	.25	.26	.28	.29	.30		.33	.35	.37	.38	.40	.42		.44	.45	.47	.48	.49	.50								
	335	331	328	328	331	336	344	357	371	387	405	425		460	483	506	529	551	573		598	617	634	649	662	672								

JAN-APR 20 N TABLE 8-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.29	.28	.28	.28	.29	.29	.30	.31	.32	.33	.34	.36	.38	.40	.42	.44	.46	.47	.49	.51	.52	.53	.54	.55
	406	403	400	401	404	410	419	433	447	464	482	502	537	559	582	605	627	648	672	690	70[illegible]	721	733	743
15	.34	.33	.33	.33	.34	.34	.35	.36	.37	.38	.40	.41	.44	.46	.47	.49	.51	.53	.54	.55	.57	.58	.59	.60
	475	472	470	471	475	482	492	506	521	538	557	577	611	634	656	679	700	721	744	761	776	790	801	810
30	.38	.38	.38	.38	.39	.39	.40	.41	.42	.43	.45	.46	.49	.51	.53	.54	.56	.58	.59	.61	.62	.63	.64	.65
	541	538	537	539	544	551	561	577	592	609	628	648	683	705	727	749	770	790	812	829	844	856	867	875
45	.43	.43	.43	.43	.43	.44	.45	.46	.47	.48	.50	.51	.54	.56	.57	.59	.61	.62	.64	.65	.67	.68	.69	.69
	603	601	601	604	609	617	628	644	660	677	696	717	751	773	795	817	837	857	878	894	907	919	929	937
0900	.47	.47	.47	.47	.48	.48	.49	.50	.52	.53	.54	.56	.59	.60	.62	.64	.65	.67	.69	.70	.71	.72	.73	.74
	663	661	662	665	671	680	691	708	724	742	762	782	816	838	860	881	901	919	940	955	968	979	988	995
15	.51	.51	.51	.51	.52	.52	.53	.55	.56	.57	.59	.60	.63	.65	.67	.68	.70	.71	.73	.74	.75	.76	.77	.78
	718	717	719	723	730	739	751	768	785	803	823	844	878	899	920	941	960	978	998	*012	*024	*034	*043	*049
30	.54	.54	.55	.55	.56	.56	.57	.59	.60	.61	.63	.65	.67	.69	.71	.72	.74	.75	.77	.78	.79	.80	.81	.81
	770	770	772	776	784	794	807	825	842	861	880	901	93[illegible]	956	977	997	*016	*033	*052	*065	*076	*086	*093	*099
45	.58	.58	.58	.58	.59	.60	.61	.62	.64	.65	.67	.68	.71	.73	.74	.76	.78	.79	.81	.82	.83	.84	.84	.85
	818	818	821	826	835	845	859	877	895	914	934	954	988	*009	*029	*049	*067	*083	*101	*114	*125	*133	*140	*145
1000	.61	.61	.61	.62	.62	.63	.64	.66	.67	.69	.70	.72	.75	.76	.78	.79	.81	.82	.84	.85	.86	.87	.87	.88
	861	862	865	872	881	892	906	925	943	962	983	*003	*037	*057	*077	*096	*114	*129	*146	*158	*168	*176	*182	*186
15	.64	.64	.64	.65	.65	.66	.67	.69	.70	.72	.73	.75	.79	.79	.81	.83	.84	.85	.87	.88	.89	.90	.90	.91
	900	901	906	913	923	935	949	969	987	*007	*027	*048	*081	*101	*120	*139	*155	*171	*187	*198	*207	*214	*220	*223
30	.66	.66	.67	.67	.68	.69	.70	.72	.73	.75	.76	.78	.81	.82	.84	.85	.87	.88	.89	.90	.91	.92	.93	.93
	934	936	941	949	960	972	987	*008	*026	*046	*066	*087	*120	*140	*159	*176	*193	*207	*222	*233	*241	*248	*253	*256
45	.68	.68	.69	.69	.70	.71	.72	.74	.76	.77	.79	.80	.83	.85	.86	.88	.89	.90	.92	.93	.93	.94	.95	.95
	963	966	972	981	992	*005	*021	*042	*061	*081	*101	*122	*154	*173	*192	*209	*225	*238	*253	*262	*270	*276	*280	*283

JAN-APR 20 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.70	.70	.71	.71	.72	.73	.74	.76	.78	.79	.81	.82	.85	.87	.88	.90	.91	.92	.93	.94	.95	.96	.96	.97
	988	991	998	*007	*019	*033	*049	*071	*090	*110	*130	*151	*183	*202	*220	*236	*251	*265	*278	*287	*294	*300	*303	*305
15	.71	.71	.72	.73	.74	.75	.76	.78	.79	.81	.83	.84	.87	.88	.90	.91	.92	.94	.95	.96	.97	.97	.98	.98
	*007	*011	*018	*029	*041	*056	*073	*094	*114	*134	*154	*175	*207	*225	*243	*259	*273	*285	*298	*308	*313	*318	*321	*322
30	.72	.73	.73	.74	.75	.76	.77	.79	.81	.82	.84	.85	.88	.90	.91	.92	.94	.95	.96	.97	.98	.98	.99	.99
	*021	*026	*034	*045	*058	*074	*091	*113	*133	*153	*173	*194	*225	*243	*260	*275	*289	*301	*313	*321	*327	*331	*333	*335
45	.73	.73	.74	.75	.76	.77	.78	.80	.82	.83	.85	.86	.89	.90	.92	.93	.94	.96	.97	.97	.98	.99	.99	.99
	*030	*035	*044	*056	*070	*086	*103	*126	*146	*166	*187	*207	*238	*255	*272	*287	*300	*311	*322	*329	*335	*338	*341	*341
1200	.73	.74	.74	.75	.76	.77	.79	.81	.82	.84	.85	.87	.89	.91	.92	.94	.95	.96	.97	.98	.98	.99	.99	***
	*034	*040	*050	*062	*076	*093	*111	*134	*154	*174	*195	*215	*245	*262	*278	*292	*305	*315	*326	*332	*337	*341	*342	*343
15	.73	.73	.74	.75	.76	.78	.79	.81	.82	.84	.86	.87	.90	.91	.92	.94	.95	.96	.97	.98	.98	.99	.99	.99
	*033	*039	*050	*062	*078	*094	*113	*136	*156	*177	*197	*217	*246	*263	*279	*292	*304	*315	*324	*330	*335	*338	*339	*339
30	.73	.73	.74	.75	.76	.77	.79	.81	.82	.84	.85	.87	.89	.91	.92	.93	.94	.95	.96	.97	.98	.98	.98	.99
	*026	*033	*044	*058	*073	*091	*109	*133	*153	*174	*194	*213	*243	*259	*274	*287	*298	*308	*317	*323	*327	*329	*330	*330
45	.72	.72	.73	.74	.75	.77	.78	.80	.82	.83	.85	.86	.89	.90	.91	.92	.94	.94	.95	.96	.97	.97	.97	.98
	*014	*022	*034	*048	*064	*082	*101	*125	*145	*165	*185	*205	*233	*249	*264	*276	*287	*296	*304	*310	*313	*315	*316	*316
1300	.70	.71	.72	.73	.74	.76	.77	.79	.81	.82	.84	.85	.88	.89	.90	.91	.92	.93	.94	.95	.95	.96	.96	.96
	997	*005	*018	*032	*049	*067	*086	*111	*131	*151	*171	*190	*218	*234	*248	*260	*270	*279	*287	*291	*295	*296	*297	*297
15	.69	.70	.70	.72	.73	.74	.76	.78	.79	.81	.82	.84	.86	.87	.89	.90	.91	.92	.92	.93	.93	.94	.94	.94
	975	984	997	*012	*029	*047	*067	*091	*112	*132	*152	*170	*198	*213	*226	*238	*248	*256	*263	*268	*271	*272	*273	*273
30	.67	.68	.69	.70	.71	.72	.74	.76	.77	.79	.81	.82	.84	.86	.87	.88	.89	.89	.90	.91	.91	.92	.92	.92
	948	957	971	986	*004	*023	*042	*067	*087	*107	*127	*145	*172	*187	*200	*211	*220	*228	*235	*239	*242	*243	*244	*244
45	.65	.65	.66	.68	.69	.70	.72	.74	.75	.77	.78	.80	.82	.83	.84	.85	.86	.87	.88	.88	.89	.89	.89	.90
	916	925	940	956	974	993	*013	*037	*058	*078	*097	*115	*141	*155	*168	*179	*187	*195	*201	*205	*208	*209	*210	*209

JAN-APR 20 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.62	.63	.64	.65	.66	.68	.69	.71	.73	.74	.76	.77	.79	.81	.82	.83	.84	.84	.85	.86	.86	.86	.87	.87
	879	889	904	921	939	958	978	*003	*023	*043	*062	*079	*105	*119	*131	*141	*150	*157	*163	*165	*169	*170	*171	*171
15	.59	.60	.61	.62	.64	.65	.67	.68	.70	.72	.73	.74	.76	.78	.79	.80	.80	.81	.82	.82	.83	.83	.83	.84
	838	848	864	880	899	918	938	963	983	*003	*021	*039	*064	*077	*089	*099	*107	*114	*119	*123	*125	*126	*127	*127
30	.56	.57	.58	.59	.61	.62	.63	.65	.67	.68	.70	.71	.73	.74	.75	.76	.77	.78	.78	.79	.79	.80	.80	.80
	792	803	819	836	855	874	894	919	939	958	977	994	*018	*031	*042	*052	*060	*066	*071	*075	*077	*079	*079	*080
45	.52	.53	.54	.56	.57	.59	.60	.62	.63	.65	.66	.68	.70	.71	.72	.72	.73	.74	.75	.75	.75	.76	.76	.76
	742	754	769	787	806	825	846	870	890	909	927	944	968	980	991	*000	*008	*014	*019	*022	*025	*026	*027	*028
1500	.49	.49	.51	.52	.53	.55	.56	.58	.60	.61	.62	.64	.66	.67	.68	.68	.69	.70	.70	.71	.71	.72	.72	.72
	688	700	716	734	753	773	793	817	837	855	873	890	913	925	936	944	952	957	963	965	968	970	971	972
15	.45	.45	.47	.48	.49	.51	.52	.54	.55	.57	.58	.60	.61	.62	.63	.64	.65	.65	.66	.66	.67	.67	.67	.68
	631	643	659	677	696	716	736	760	779	798	815	831	854	866	876	885	892	897	902	905	907	910	912	913
30	.40	.41	.42	.44	.45	.46	.48	.50	.51	.53	.54	.55	.57	.58	.59	.59	.60	.61	.61	.62	.62	.62	.63	.63
	570	582	598	616	635	655	675	699	718	736	753	769	791	803	812	821	828	833	838	842	844	847	848	850
45	.36	.37	.38	.39	.40	.42	.43	.45	.47	.48	.49	.50	.52	.53	.54	.55	.55	.56	.56	.57	.57	.58	.58	.58
	505	517	534	552	572	591	611	634	653	671	688	703	725	736	745	754	760	766	771	774	777	780	782	784
1600	.31	.32	.33	.34	.36	.37	.39	.40	.42	.43	.44	.45	.47	.48	.49	.50	.50	.51	.51	.52	.52	.52	.53	.53
	438	450	467	485	504	524	543	567	585	603	619	634	655	666	675	683	690	695	700	704	707	710	713	716
15	.26	.27	.28	.29	.31	.32	.34	.35	.37	.38	.39	.40	.42	.43	.44	.44	.45	.45	.46	.46	.47	.47	.47	.48
	368	380	397	415	434	454	473	496	514	531	547	562	582	593	602	610	616	622	627	631	634	638	641	644
30	.21	.22	.23	.24	.26	.27	.28	.30	.31	.33	.34	.35	.36	.37	.38	.39	.39	.40	.40	.41	.41	.42	.42	.42
	295	308	325	343	362	381	400	422	440	457	472	487	506	517	526	534	540	546	551	555	559	563	567	571
45	.16	.17	.18	.19	.20	.22	.23	.25	.26	.27	.28	.29	.31	.32	.32	.33	.34	.34	.35	.35	.35	.36	.36	.37
	221	233	250	268	287	306	324	346	364	380	395	409	429	439	448	455	462	467	473	478	482	486	491	495

JAN-APR 20 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.10	.11	.12	.14	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29	.30	.30	.31	.31
	144	157	174	192	210	229	247	268	285	301	316	330	343	359	367	375	381	387	394	398	403	408	413	418
15	.05	.06	.07	.08	.09	.11	.12	.13	.15	.16	.17	.18	.19	.20	.21	.21	.22	.22	.23	.23	.24	.24	.25	.25
	067	079	096	114	132	150	168	189	205	221	235	249	267	277	285	293	300	306	312	318	323	328	334	340
30	.00	.00	.01	.02	.04	.05	.06	.08	.09	.10	.11	.12	.13	.14	.15	.15	.16	.16	.17	.17	.18	.18	.19	.19
	000	000	017	034	052	070	087	108	124	139	153	166	184	193	202	210	216	223	230	235	241	247	254	260
45	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04	.05	.06	.07	.08	.09	.09	.10	.10	.11	.11	.12	.12	.13	.13
	000	000	000	000	000	000	006	025	041	056	070	082	100	109	118	125	133	139	147	153	159	166	173	180
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03	.04	.04	.05	.05	.06	.06	.07	.07
	000	000	000	000	000	000	000	000	000	000	000	000	015	024	033	041	048	055	063	070	077	084	092	100
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	00	.00	.00	.00	.00	.00	.00	.01	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	002	011	019
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 20 N TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.01	.02	.02	.02	.02	.02	.02	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	011	019	026	030	032	031	029	025	019	013	005	000	000	000	000	000	000	000	000	000	000	000
45	.05	.06	.07	.07	.08	.08	.08	.08	.08	.08	.07	.07	.06	.05	.05	.04	.03	.03	.02	.01	.01	.00	.00	.00
	066	078	089	097	102	106	107	106	103	099	094	087	079	071	062	053	044	035	025	017	009	002	000	000
0600	.11	.12	.12	.13	.13	.14	.14	.14	.13	.13	.13	.12	.12	.11	.10	.10	.09	.09	.08	.07	.07	.06	.06	.05
	145	157	167	174	179	182	182	181	178	174	168	162	154	146	138	129	121	113	103	095	089	082	076	071
15	.17	.18	.18	.19	.19	.19	.19	.19	.19	.19	.18	.18	.17	.17	.16	.16	.15	.14	.14	.13	.13	.12	.12	.11
	225	236	245	251	255	258	258	256	253	249	243	237	229	222	214	206	198	190	181	174	168	162	157	152
30	.23	.23	.24	.25	.25	.25	.25	.25	.25	.24	.24	.24	.23	.22	.22	.21	.21	.20	.20	.19	.19	.18	.18	.17
	304	314	322	328	332	333	333	331	328	323	317	311	304	297	289	282	274	267	259	253	247	242	238	234
45	.28	.29	.30	.30	.31	.31	.31	.31	.30	.30	.30	.29	.29	.28	.28	.27	.26	.26	.25	.25	.24	.24	.24	.23
	382	392	399	404	407	408	408	405	402	397	391	385	378	371	364	357	350	344	337	331	326	322	318	314
0700	.34	.35	.35	.36	.36	.36	.36	.36	.36	.36	.35	.35	.34	.34	.33	.33	.32	.32	.31	.31	.30	.30	.30	.29
	459	468	475	479	482	482	481	478	475	470	464	458	452	445	438	432	426	420	413	408	404	400	397	394
15	.40	.40	.41	.41	.42	.42	.42	.41	.41	.41	.41	.40	.40	.39	.39	.38	.38	.37	.37	.36	.36	.36	.35	.35
	535	543	549	553	555	555	553	550	546	542	536	530	524	518	511	505	500	494	489	484	481	477	474	472
30	.45	.46	.46	.47	.47	.47	.47	.47	.47	.46	.46	.45	.45	.44	.44	.44	.43	.43	.42	.42	.42	.41	.41	.41
	609	616	622	625	626	626	624	621	617	612	606	601	595	589	583	577	572	567	562	559	556	553	551	548
45	.51	.51	.52	.52	.52	.52	.52	.52	.52	.51	.51	.51	.50	.50	.49	.49	.48	.48	.48	.47	.47	.47	.47	.46
	681	688	692	695	695	695	692	689	685	680	675	669	664	658	653	648	643	639	634	631	629	627	625	623

MAY-AUG 20 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800		.56	.56	.57	.57	.57	.57	.57	.57	.57	.56	.56	.56	.55	.55	.54	.54	.54	.53	.53	.53	.52	.52	.52	.52
		751	756	760	762	763	762	759	755	751	746	741	736	730	725	720	716	712	708	704	702	700	698	696	695
15		.61	.61	.62	.62	.62	.62	.62	.62	.61	.61	.61	.60	.60	.60	.59	.59	.59	.58	.58	.58	.58	.57	.57	.57
		818	823	826	827	827	826	822	819	815	810	805	800	795	790	786	782	778	775	772	770	768	767	765	764
30		.66	.66	.66	.67	.67	.67	.67	.66	.66	.66	.65	.65	.65	.64	.64	.64	.63	.63	.63	.63	.62	.62	.62	.62
		882	886	888	889	889	887	884	880	876	871	866	861	857	852	848	845	842	839	837	835	834	833	832	831
45		.70	.71	.71	.71	.71	.71	.71	.71	.70	.70	.70	.70	.69	.69	.69	.68	.68	.68	.68	.67	.67	.67	.67	.67
		942	940	938	938	937	935	932	928	923	919	914	910	905	902	898	895	892	890	888	887	886	886	885	884
0900		.74	.75	.75	.75	.75	.75	.75	.75	.75	.74	.74	.74	.73	.73	.73	.73	.72	.72	.72	.72	.72	.71	.71	.71
		999	*003	*004	*004	*003	*000	996	992	988	984	979	975	971	968	965	962	960	958	957	955	955	955	954	953
15		.78	.79	.79	.79	.79	.79	.79	.79	.78	.78	.78	.78	.77	.77	.77	.77	.76	.76	.76	.76	.76	.76	.75	.75
		*053	*056	*056	*056	*054	*052	*048	*044	*039	*035	*031	*027	*024	*020	*018	*015	*014	*013	*012	*011	*011	*011	*010	*009
30		.82	.82	.83	.83	.83	.83	.82	.82	.82	.82	.82	.81	.81	.81	.81	.80	.80	.80	.80	.80	.80	.79	.79	.79
		*103	*104	*105	*104	*102	*099	*095	*091	*087	*083	*079	*075	*072	*069	*067	*065	*064	*063	*063	*063	*063	*063	*062	*061
45		.85	.86	.86	.86	.86	.86	.86	.86	.85	.85	.85	.85	.84	.84	.84	.84	.84	.84	.83	.83	.83	.83	.83	.83
		*148	*149	*149	*148	*146	*143	*139	*135	*131	*127	*123	*120	*117	*115	*113	*111	*111	*110	*110	*110	*110	*110	*110	*109
1000		.88	.89	.89	.89	.89	.89	.89	.88	.88	.88	.88	.88	.87	.87	.87	.87	.87	.87	.87	.87	.86	.86	.86	.86
		*189	*190	*189	*188	*185	*182	*178	*174	*170	*167	*163	*160	*158	*156	*154	*153	*153	*153	*153	*153	*154	*154	*153	*152
15		.91	.91	.91	.92	.92	.91	.91	.91	.91	.91	.91	.90	.90	.90	.90	.90	.90	.90	.90	.89	.89	.89	.89	.89
		*225	*226	*225	*223	*221	*217	*213	*209	*206	*202	*199	*197	*194	*193	*192	*191	*191	*191	*192	*192	*193	*193	*192	*191
30		.93	.94	.94	.94	.94	.94	.94	.93	.93	.93	.93	.93	.93	.93	.92	.92	.92	.92	.92	.92	.92	.92	.91	.91
		*257	*257	*256	*254	*251	*248	*244	*240	*237	*234	*231	*229	*227	*225	*225	*225	*225	*225	*226	*227	*227	*227	*226	*225
45		.95	.96	.96	.96	.96	.96	.96	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.94	.94	.94	.94	.93
		*284	*284	*282	*280	*277	*274	*270	*266	*263	*260	*258	*256	*254	*254	*253	*253	*254	*254	*255	*255	*256	*256	*256	*254

MAY-AUG 20 N TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.96	.96	.96	.96	.96	.96	.95	.96	.96	.95	.95
	*306	*305	*304	*301	*298	*295	*291	*288	*285	*282	*280	*279	*278	*277	*277	*277	*278	*279	*280	*281	*281	*281	*280	*278
15	.98	.99	.99	.99	.99	.99	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.96
	*323	*322	*320	*318	*315	*312	*308	*305	*302	*300	*298	*297	*296	*296	*296	*297	*298	*299	*300	*301	*301	*300	*299	*297
30	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.97
	*335	*333	*332	*329	*326	*323	*320	*317	*314	*312	*311	*310	*310	*310	*310	*311	*312	*313	*315	*315	*315	*315	*313	*310
45	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	.99	.99	.99	.99	.98
	*341	*340	*338	*335	*333	*330	*326	*324	*322	*320	*319	*318	*318	*319	*320	*321	*322	*323	*324	*325	*325	*324	*322	*318
1200	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	.99	.99	.98
	*342	*341	*339	*337	*334	*331	*328	*326	*324	*323	*322	*322	*322	*323	*324	*325	*327	*328	*329	*329	*329	*328	*325	*321
15	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	.99	.99	.99	.98
	*339	*337	*335	*333	*330	*328	*325	*323	*322	*321	*321	*321	*321	*322	*324	*325	*326	*328	*329	*329	*328	*326	*323	*319
30	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	***	***	***	***	.99	.99	.99	.99	.98	.98
	*330	*328	*326	*324	*322	*320	*317	*316	*315	*314	*314	*314	*315	*317	*318	*320	*321	*322	*323	*323	*322	*320	*316	*311
45	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98	.97	.97
	*316	*314	*312	*310	*308	*306	*304	*303	*302	*302	*303	*303	*305	*306	*308	*309	*311	*312	*312	*312	*310	*308	*304	*298
1300	.96	.96	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.97	.98	.98	.98	.98	.97	.97	.97	.96	.96	.95
	*296	*295	*293	*291	*290	*288	*287	*286	*286	*286	*286	*287	*289	*291	*292	*294	*295	*296	*297	*298	*294	*291	*286	*280
15	.95	.95	.95	.95	.95	.95	.95	.95	.95	.95	.96	.96	.96	.96	.96	.96	.96	.96	.96	.96	.95	.95	.94	.93
	*272	*271	*269	*268	*266	*265	*264	*264	*264	*264	*265	*267	*268	*270	*272	*274	*275	*276	*276	*275	*272	*269	*263	*256
30	.92	.93	.93	.93	.93	.93	.93	.93	.93	.93	.94	.94	.94	.94	.94	.94	.94	.94	.94	.94	.93	.93	.92	.91
	*243	*242	*241	*239	*238	*237	*237	*237	*238	*238	*240	*241	*243	*245	*247	*249	*250	*251	*250	*249	*246	*241	*235	*228
45	.90	.90	.90	.90	.90	.91	.91	.91	.91	.91	.91	.92	.92	.92	.92	.92	.92	.92	.92	.91	.91	.90	.90	.89
	*209	*208	*207	*206	*206	*205	*205	*206	*207	*208	*210	*212	*214	*216	*218	*219	*220	*221	*220	*218	*214	*209	*203	*194

MAY-AUG 20 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400		.87	.87	.87	.87	.88	.88	.88	.88	.88	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.89	.88	.88	.87	.86
		*170	*170	*169	*169	*168	*169	*169	*170	*171	*173	*175	*177	*180	*182	*184	*185	*186	*186	*185	*182	*178	*173	*165	*156
15		.84	.84	.84	.84	.85	.85	.85	.85	.85	.86	.86	.86	.86	.86	.86	.87	.87	.86	.86	.86	.85	.85	.84	.83
		*127	*127	*127	*127	*127	*128	*129	*130	*132	*134	*136	*139	*141	*143	*145	*147	*148	*147	*145	*142	*138	*131	*123	*113
30		.80	.80	.81	.81	.81	.81	.82	.82	.82	.82	.83	.83	.83	.83	.83	.83	.83	.83	.83	.82	.82	.81	.80	.79
		*080	*080	*080	*081	*081	*083	*084	*086	*088	*091	*093	*096	*098	*101	*103	*104	*105	*104	*102	*098	*093	*086	*077	*066
45		.76	.77	.77	.77	.77	.78	.78	.78	.79	.79	.79	.79	.80	.80	.80	.80	.80	.80	.79	.79	.78	.77	.77	.75
		*029	*029	*030	*031	*032	*034	*036	*038	*041	*044	*047	*049	*052	*055	*056	*058	*058	*057	*054	*049	*043	*036	*026	*014
1500		.72	.73	.73	.73	.73	.74	.74	.74	.75	.75	.75	.75	.76	.76	.76	.76	.76	.76	.75	.75	.74	.73	.72	.71
		973	974	976	977	979	981	984	987	990	993	996	999	*002	*004	*006	*007	*007	*005	*002	997	990	982	971	959
15		.68	.68	.69	.69	.69	.69	.70	.70	.71	.71	.71	.71	.72	.72	.72	.72	.72	.72	.71	.71	.70	.69	.68	.67
		914	916	918	920	922	925	928	932	935	938	942	945	948	951	952	953	952	950	946	941	933	924	913	899
30		.63	.64	.64	.64	.65	.65	.65	.66	.66	.67	.67	.67	.67	.68	.68	.68	.67	.67	.67	.66	.65	.65	.63	.62
		852	854	856	859	862	865	869	873	877	881	885	888	891	893	895	895	894	892	887	881	873	863	851	837
45		.59	.59	.59	.60	.60	.60	.61	.61	.62	.62	.62	.63	.63	.63	.63	.63	.63	.63	.62	.61	.61	.60	.59	.57
		787	789	792	795	799	803	808	812	816	820	824	828	831	833	834	835	833	830	825	818	809	798	785	770
1600		.53	.54	.54	.55	.55	.55	.56	.56	.57	.57	.58	.58	.58	.58	.58	.58	.58	.58	.57	.56	.56	.55	.54	.52
		719	722	725	729	733	738	743	748	753	757	761	765	768	770	771	771	769	766	759	752	742	731	717	701
15		.48	.49	.49	.49	.50	.50	.51	.51	.52	.52	.53	.53	.53	.53	.53	.53	.53	.53	.52	.51	.50	.49	.48	.47
		648	652	656	660	665	670	676	681	687	691	696	700	703	705	705	705	703	699	692	683	673	661	646	629
30		.43	.43	.44	.44	.45	.45	.46	.46	.47	.47	.47	.48	.48	.48	.48	.48	.48	.47	.47	.46	.45	.44	.43	.41
		575	579	584	589	595	600	607	613	618	623	628	632	635	637	637	636	634	629	621	612	601	588	573	555
45		.37	.38	.38	.39	.39	.40	.40	.41	.41	.42	.42	.43	.43	.43	.43	.43	.42	.42	.41	.40	.40	.38	.37	.36
		500	505	511	517	523	529	536	542	548	554	558	562	565	567	567	566	563	558	549	539	527	513	497	479

MAY-AUG 20 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	10	15	20	25	30	JUN 5	10	15	20	25	30	JUL 5	10	15	20	25	30	AUG 5	10	15	20	25	30
1700	.32	.32	.33	.33	.34	.34	.35	.35	.36	.36	.37	.37	.37	.37	.37	.37	.37	.36	.36	.35	.34	.33	.31	.30
	424	429	436	442	449	456	464	470	477	482	487	491	494	495	495	493	490	484	475	464	452	437	420	401
15	.26	.26	.27	.27	.28	.29	.29	.30	.30	.31	.31	.32	.32	.32	.32	.32	.31	.31	.30	.29	.28	.27	.25	.24
	346	352	359	367	374	381	390	397	404	409	414	418	421	422	422	420	416	409	399	388	375	359	341	322
30	.20	.20	.21	.22	.22	.23	.24	.24	.25	.25	.26	.26	.26	.26	.26	.26	.26	.25	.24	.23	.22	.21	.20	.18
	267	274	282	290	298	306	315	323	330	336	341	345	347	348	347	345	340	333	322	310	296	280	261	241
45	.14	.15	.15	.16	.17	.17	.18	.19	.19	.20	.20	.20	.21	.21	.21	.20	.20	.19	.18	.17	.16	.15	.14	.12
	188	196	204	213	222	230	240	248	255	261	266	270	273	273	272	269	264	257	245	232	217	200	181	160
1800	.08	.09	.09	.10	.11	.12	.12	.13	.14	.14	.15	.15	.15	.15	.15	.15	.14	.14	.13	.12	.10	.09	.08	.06
	108	117	126	136	145	154	165	173	180	187	192	196	198	198	197	193	187	179	167	153	138	120	100	078
15	.02	.03	.04	.04	.05	.06	.07	.07	.08	.08	.09	.09	.09	.09	.09	.09	.08	.08	.07	.06	.04	.03	.01	.00
	029	038	048	058	068	078	089	098	105	112	117	121	123	123	121	117	111	102	088	075	058	040	019	000
30	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03	.03	.04	.04	.04	.03	.03	.03	.02	.01	.00	.00	.00	.00	.00
	000	000	000	000	000	002	014	023	031	037	043	046	048	048	046	041	034	025	011	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

DATE

MAY-AUG 20 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.05	.04	.04	.04	.03	.03	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	065	060	055	050	045	039	032	024	015	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.11	.11	.10	.10	.09	.09	.08	.08	.07	.06	.06	.05	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	147	143	138	134	128	122	115	107	098	088	076	062	045	029	013	000	000	000	000	000	000	000	000	000
30	.17	.17	.16	.16	.16	.15	.15	.14	.13	.12	.11	.10	.09	.08	.07	.05	.04	.03	.02	.01	.00	.00	.00	.00
	229	225	221	216	211	205	198	190	181	170	158	144	127	111	094	076	059	041	024	009	000	000	000	000
45	.23	.23	.22	.22	.22	.21	.21	.20	.19	.18	.17	.16	.15	.14	.12	.11	.10	.09	.07	.06	.05	.04	.03	.03
	310	306	303	298	293	288	281	272	263	252	239	225	207	191	173	156	138	120	103	087	071	057	045	035
0700	.29	.29	.28	.28	.28	.27	.26	.26	.25	.24	.23	.22	.21	.19	.18	.17	.15	.14	.13	.12	.11	.10	.09	.08
	390	387	383	379	374	368	361	353	343	332	319	305	286	269	252	234	216	198	180	164	149	135	123	113
15	.35	.34	.34	.34	.33	.33	.32	.31	.31	.30	.29	.28	.26	.25	.23	.22	.21	.19	.18	.17	.16	.15	.14	.13
	469	466	462	458	454	448	440	432	422	410	397	382	363	346	328	310	292	274	256	240	225	211	199	190
30	.40	.40	.40	.39	.39	.38	.38	.37	.36	.35	.34	.33	.31	.30	.29	.27	.26	.25	.23	.22	.21	.20	.19	.19
	545	543	540	536	531	525	517	509	498	486	473	458	438	421	403	384	366	348	330	314	299	286	274	265
45	.46	.46	.45	.45	.44	.44	.43	.42	.42	.41	.39	.38	.37	.35	.34	.33	.31	.30	.29	.27	.26	.25	.25	.24
	620	618	615	611	606	600	592	583	572	560	546	531	511	493	475	456	438	419	402	386	371	358	347	338
0800	.51	.51	.51	.50	.50	.49	.48	.48	.47	.46	.45	.43	.42	.40	.39	.37	.36	.35	.33	.32	.31	.30	.30	.29
	692	690	687	683	678	672	664	655	644	631	617	601	581	563	544	526	507	489	471	455	441	428	417	409
15	.57	.56	.56	.55	.55	.54	.54	.53	.52	.51	.49	.48	.47	.45	.44	.42	.41	.39	.38	.37	.36	.35	.34	.34
	762	760	757	753	748	741	733	723	712	699	684	669	648	630	611	592	573	555	538	522	508	495	485	478
30	.62	.61	.61	.60	.60	.59	.58	.57	.56	.55	.54	.53	.51	.50	.48	.47	.45	.44	.43	.42	.40	.40	.39	.38
	829	826	823	819	814	807	799	789	777	764	749	732	711	693	674	655	636	618	601	585	572	560	550	543
45	.66	.66	.65	.65	.64	.64	.63	.62	.61	.60	.58	.57	.55	.54	.52	.51	.50	.48	.47	.46	.45	.44	.43	.43
	892	890	887	882	877	870	861	850	838	825	809	793	771	753	734	715	696	678	661	646	632	621	612	605

SEP-DEC 20 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.71	.70	.70	.69	.69	.68	.67	.66	.65	.64	.63	.61	.59	.58	.56	.55	.54	.52	.51	.50	.49	.48	.47	.47
	952	949	946	942	936	928	919	908	896	882	866	849	828	809	790	771	752	734	718	703	690	679	670	664
15	.75	.74	.74	.73	.73	.72	.71	.70	.69	.68	.66	.65	.63	.62	.60	.59	.57	.56	.55	.54	.53	.52	.51	.51
	*008	*005	*002	997	991	983	973	962	949	935	919	902	880	861	842	823	804	786	770	756	743	733	725	720
30	.79	.78	.78	.77	.76	.76	.75	.74	.72	.71	.70	.68	.67	.65	.64	.62	.61	.59	.58	.57	.56	.55	.55	.55
	*059	*057	*053	*048	*041	*033	*023	*012	998	983	967	950	926	906	889	870	852	835	819	804	792	783	776	771
45	.82	.82	.81	.81	.80	.79	.78	.77	.76	.74	.73	.71	.70	.68	.67	.65	.64	.62	.61	.60	.59	.59	.58	.58
	*107	*104	*100	*094	*087	*079	*068	*056	*043	*027	*011	993	971	952	932	914	895	878	863	849	838	829	822	818
1000	.85	.85	.84	.84	.83	.82	.81	.80	.79	.77	.76	.74	.72	.71	.69	.68	.67	.65	.64	.63	.62	.62	.61	.61
	*150	*147	*142	*136	*129	*120	*109	*097	*082	*067	*050	*032	*009	990	971	952	934	918	903	889	878	870	864	861
15	.88	.88	.87	.86	.86	.85	.84	.82	.81	.80	.78	.77	.75	.73	.72	.70	.69	.68	.67	.66	.65	.64	.64	.64
	*188	*185	*180	*174	*166	*156	*145	*132	*117	*101	*084	*066	*043	*024	*005	986	969	952	938	925	915	907	902	900
30	.91	.90	.89	.89	.88	.87	.86	.85	.83	.82	.80	.79	.77	.75	.74	.72	.71	.70	.69	.68	.67	.66	.66	.66
	*222	*218	*213	*206	*197	*187	*175	*162	*147	*131	*113	*095	*072	*053	*034	*015	998	982	968	955	946	939	935	934
45	.93	.92	.92	.91	.90	.89	.88	.86	.85	.84	.82	.80	.79	.77	.76	.74	.73	.72	.70	.70	.69	.68	.68	.68
	*250	*246	*240	*233	*224	*213	*201	*187	*171	*155	*137	*118	*095	*076	*057	*039	*022	*007	993	982	973	967	963	963
1100	.95	.94	.93	.92	.91	.90	.89	.88	.86	.85	.83	.82	.80	.78	.77	.75	.74	.73	.72	.71	.70	.70	.70	.70
	*274	*269	*263	*255	*245	*234	*221	*206	*191	*173	*155	*137	*114	*095	*076	*058	*042	*027	*014	*003	995	989	986	987
15	.96	.95	.94	.94	.93	.91	.90	.89	.87	.86	.84	.83	.81	.79	.78	.76	.75	.74	.73	.72	.72	.71	.71	.71
	*292	*287	*280	*271	*261	*249	*236	*221	*204	*187	*169	*150	*127	*108	*089	*072	*056	*041	*029	*019	*011	*006	*004	*006
30	.97	.96	.95	.94	.93	.92	.91	.89	.88	.86	.85	.83	.81	.80	.78	.77	.76	.75	.74	.73	.72	.72	.72	.72
	*305	*299	*292	*282	*272	*259	*245	*230	*213	*195	*176	*157	*134	*116	*097	*080	*065	*051	*039	*029	*023	*019	*017	*019
45	.97	.97	.96	.95	.94	.92	.91	.90	.88	.87	.85	.83	.82	.80	.79	.77	.76	.75	.74	.73	.73	.73	.72	.73
	*313	*306	*298	*288	*277	*264	*249	*233	*216	*198	*179	*160	*137	*118	*100	*083	*068	*055	*044	*035	*029	*026	*025	*028

SEP-DEC 20 N TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.98	.97	.96	.95	.94	.92	.91	.90	.88	.86	.85	.83	.81	.80	.78	.77	.76	.75	.74	.73	.73	.73	.73	.73
	*315	*308	*299	*288	*276	*262	*247	*231	*213	*195	*176	*156	*133	*115	*097	*031	*066	*054	*043	*035	*030	*027	*028	*031
15	.97	.96	.96	.94	.93	.92	.90	.89	.87	.86	.84	.83	.81	.79	.78	.77	.75	.74	.74	.73	.73	.72	.73	.73
	*312	*304	*294	*283	*270	*256	*240	*223	*205	*186	*167	*148	*126	*107	*089	*073	*059	*047	*037	*030	*026	*024	*025	*030
30	.97	.96	.95	.94	.92	.91	.90	.88	.86	.85	.83	.82	.80	.78	.77	.76	.75	.74	.73	.72	.72	.72	.72	.72
	*303	*295	*284	*272	*259	*244	*228	*210	*192	*172	*153	*134	*111	*093	*076	*061	*047	*035	*026	*020	*016	*015	*018	*023
45	.96	.95	.94	.92	.91	.90	.88	.87	.85	.83	.82	.80	.78	.77	.76	.74	.73	.72	.72	.71	.71	.71	.71	.71
	*289	*280	*269	*256	*242	*226	*209	*191	*173	*153	*134	*114	*092	*074	*057	*043	*029	*019	*010	*005	*002	*002	*005	*010
1300	.94	.93	.92	.91	.90	.88	.87	.85	.83	.82	.80	.78	.77	.75	.74	.73	.72	.71	.70	.70	.70	.70	.70	.70
	*270	*260	*248	*235	*220	*204	*186	*168	*148	*129	*109	*090	*067	*050	*034	*019	*007	997	989	984	982	983	987	993
15	.92	.91	.90	.89	.88	.86	.84	.83	.81	.80	.78	.76	.74	.73	.72	.71	.70	.69	.68	.68	.68	.68	.68	.69
	*246	*235	*222	*208	*193	*176	*158	*139	*119	*099	*079	*060	*038	*021	*005	991	979	970	963	959	957	959	963	971
30	.90	.89	.88	.87	.85	.84	.82	.80	.79	.77	.75	.74	.72	.71	.69	.68	.67	.67	.66	.66	.66	.66	.66	.67
	*216	*205	*191	*177	*160	*143	*124	*104	*084	*064	*045	*025	*003	986	971	958	947	938	932	928	928	930	935	943
45	.88	.87	.85	.84	.82	.81	.79	.78	.76	.74	.73	.71	.69	.68	.67	.66	.65	.64	.64	.63	.63	.63	.64	.64
	*182	*170	*155	*140	*123	*104	*085	*065	*045	*025	*005	986	964	947	933	920	909	901	896	893	893	896	902	911
1400	.85	.84	.82	.81	.79	.78	.76	.74	.73	.71	.69	.68	.66	.65	.64	.63	.62	.61	.61	.60	.60	.61	.61	.62
	*143	*130	*115	*098	*080	*061	*042	*021	*001	980	960	941	920	904	889	877	867	860	855	853	854	858	865	874
15	.82	.80	.79	.77	.76	.74	.73	.71	.69	.67	.66	.64	.63	.61	.60	.59	.58	.58	.57	.57	.57	.58	.58	.59
	*099	*085	*069	*052	*033	*014	994	973	952	931	912	893	871	856	842	830	821	814	810	809	811	815	823	833
30	.78	.77	.75	.74	.72	.70	.69	.67	.65	.64	.62	.60	.59	.58	.56	.56	.55	.54	.54	.54	.54	.54	.55	.56
	*051	*036	*019	*001	982	962	941	920	899	878	858	839	819	803	790	779	770	764	761	760	763	768	776	787
45	.74	.73	.71	.70	.68	.66	.65	.63	.61	.59	.58	.56	.55	.53	.52	.52	.51	.50	.50	.50	.50	.51	.51	.52
	998	982	965	946	927	906	884	863	842	821	801	782	762	747	734	724	716	710	708	708	711	717	725	736

SEP-DEC 20 N TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500		.70	.68	.67	.65	.64	.62	.60	.58	.57	.55	.53	.52	.50	.49	.48	.47	.47	.46	.46	.46	.46	.47	.47	.48
		941	925	907	887	867	846	824	802	781	760	740	721	701	687	674	664	657	652	651	651	655	662	671	682
15		.65	.64	.62	.61	.59	.57	.55	.54	.52	.50	.49	.47	.46	.45	.44	.43	.42	.42	.42	.42	.42	.43	.43	.44
		881	864	845	825	804	782	760	737	716	695	675	657	637	623	611	602	595	591	590	591	599	603	613	625
30		.61	.59	.58	.56	.54	.52	.51	.49	.47	.45	.44	.42	.41	.40	.39	.38	.38	.37	.37	.37	.38	.38	.39	.40
		817	799	779	759	737	714	692	669	648	627	607	589	570	556	545	536	530	526	526	528	533	541	551	563
45		.56	.54	.52	.51	.49	.47	.45	.44	.42	.40	.39	.37	.36	.35	.34	.33	.33	.33	.33	.33	.33	.34	.34	.35
		750	731	711	689	667	644	621	598	576	555	536	518	499	486	475	467	462	459	459	462	467	475	486	499
1600		.50	.49	.47	.45	.44	.42	.40	.38	.36	.35	.33	.32	.31	.30	.29	.28	.28	.28	.28	.28	.28	.29	.30	.31
		680	660	639	617	594	571	547	525	502	481	462	444	426	413	403	395	391	388	389	393	399	407	418	431
15		.45	.43	.42	.40	.38	.36	.34	.33	.31	.29	.28	.27	.25	.24	.24	.23	.23	.22	.23	.23	.23	.24	.25	.26
		607	587	565	542	519	495	471	448	426	405	386	368	351	338	328	321	317	316	317	321	327	336	348	361
30		.39	.38	.36	.34	.32	.31	.29	.27	.25	.24	.22	.21	.20	.19	.18	.18	.17	.17	.17	.18	.18	.19	.19	.20
		532	511	488	465	441	417	393	370	348	327	308	290	273	261	252	245	242	241	243	247	254	263	275	289
45		.34	.32	.30	.28	.27	.25	.23	.21	.19	.18	.16	.15	.14	.13	.12	.12	.12	.12	.12	.12	.13	.13	.14	.15
		455	433	410	386	362	337	313	290	267	246	228	211	194	182	174	168	165	164	166	171	179	188	200	214
1700		.28	.26	.24	.23	.21	.19	.17	.15	.14	.12	.11	.09	.08	.07	.07	.06	.06	.06	.06	.07	.07	.08	.09	.10
		376	353	330	305	280	256	231	208	186	165	146	130	.3	102	094	089	086	086	089	094	102	112	124	138
15		.22	.20	.18	.16	.15	.13	.11	.09	.08	.06	.05	.03	.02	.02	.01	.01	.00	.01	.01	.01	.02	.02	.03	.04
		296	273	248	223	198	173	149	125	103	082	064	048	032	021	013	008	006	007	010	016	024	034	046	060
30		.16	.14	.12	.10	.08	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		214	191	166	141	115	090	065	041	019	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45		.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		132	108	083	057	031	006	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 20 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1800	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	050	025	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 20 N TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
15	.05	.04	.03	.02	.02	.01	.01	.01	.00	.00	.00	.01
	066	056	045	034	025	017	011	006	004	004	006	009
30	.11	.10	.09	.09	.08	.07	.07	.07	.07	.07	.07	.07
	151	141	130	120	112	105	099	095	093	094	096	099
45	.17	.16	.15	.15	.14	.14	.13	.13	.13	.13	.13	.14
	235	226	215	206	198	191	186	183	182	183	185	189
0700	.23	.22	.21	.21	.20	.20	.19	.19	.19	.19	.20	.20
	318	310	300	291	283	277	273	270	270	271	274	278
15	.28	.28	.27	.27	.26	.26	.25	.25	.25	.26	.26	.26
	400	392	382	374	367	362	358	356	356	358	361	366
30	.34	.33	.33	.32	.32	.32	.31	.31	.31	.32	.32	.32
	481	473	464	456	450	445	442	441	441	443	447	452
45	.40	.39	.38	.38	.38	.37	.37	.37	.37	.38	.38	.38
	559	551	543	536	530	527	524	523	524	527	531	536
0800	.45	.44	.44	.43	.43	.43	.43	.43	.43	.43	.44	.44
	634	627	620	614	609	606	604	604	605	608	613	618
15	.50	.50	.49	.49	.48	.48	.48	.48	.49	.49	.49	.50
	708	701	694	689	684	682	681	682	684	687	692	697
30	.55	.55	.54	.54	.54	.54	.54	.54	.54	.54	.55	.55
	778	772	765	761	757	755	755	757	759	763	768	773
45	.60	.59	.59	.59	.59	.59	.59	.59	.59	.60	.60	.61
	844	839	833	829	827	826	826	828	831	836	841	846

DATE

MST	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.01	.01
	000	000	000	000	000	000	000	000	000	006	012	017
15	.01	.02	.02	.03	.04	.04	.05	.06	.06	.07	.07	.08
	018	025	033	042	052	061	072	080	087	094	098	102
30	.08	.08	.09	.10	.10	.11	.12	.12	.13	.13	.14	.14
	108	116	124	133	141	150	160	168	175	180	184	187
45	.14	.15	.15	.16	.17	.17	.18	.19	.19	.20	.20	.20
	198	206	214	222	231	239	248	255	261	266	269	271
0700	.21	.21	.22	.23	.23	.24	.25	.25	.26	.26	.26	.26
	287	295	303	311	319	327	336	342	347	351	353	354
15	.27	.28	.28	.29	.30	.30	.31	.31	.32	.32	.32	.32
	375	383	390	398	406	413	421	427	431	434	436	436
30	.33	.34	.34	.35	.36	.36	.37	.37	.38	.38	.38	.38
	462	469	476	484	491	498	505	510	513	515	516	515
45	.39	.40	.41	.41	.42	.42	.43	.43	.44	.44	.44	.44
	546	553	560	567	574	580	586	590	593	594	594	593
0800	.45	.46	.46	.47	.48	.48	.49	.49	.49	.50	.50	.50
	628	635	642	648	655	660	666	669	671	671	670	668
15	.51	.51	.52	.53	.53	.54	.54	.55	.55	.55	.55	.55
	707	714	720	727	732	737	742	744	745	745	743	740
30	.56	.57	.58	.58	.59	.59	.60	.60	.60	.60	.60	.60
	783	790	796	802	807	811	815	816	817	815	813	809
45	.62	.62	.63	.63	.64	.64	.65	.65	.65	.65	.65	.65
	856	862	868	874	878	882	884	885	884	882	879	874

JAN-APR 0 TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0900	.64	.64	.63	.63	.63	.63	.63	.64	.64	.65	.65	.66	.67	.67	.68	.68	.69	.69	.70	.70	.70	.70	.70	.69
	907	903	898	895	893	892	893	896	900	905	910	916	925	931	937	942	946	949	950	950	949	946	941	936
15	.68	.68	.68	.68	.68	.68	.68	.68	.69	.69	.70	.70	.71	.72	.72	.73	.73	.74	.74	.74	.74	.74	.74	.74
	966	962	958	956	955	955	957	961	965	970	975	981	991	998	*001	*006	*009	*011	*012	*011	*009	*005	*000	993
30	.72	.72	.72	.72	.72	.72	.72	.73	.73	.74	.74	.75	.76	.76	.77	.77	.78	.78	.78	.78	.78	.78	.78	.78
	*021	*018	*015	*013	*013	*014	*017	*021	*025	*031	*036	*042	*052	*057	*062	*066	*068	*070	*069	*068	*064	*060	*054	*047
45	.76	.76	.75	.75	.76	.76	.76	.77	.77	.78	.78	.79	.80	.80	.81	.81	.82	.82	.82	.82	.82	.82	.82	.81
	*072	*069	*067	*066	*067	*069	*072	*077	*082	*087	*093	*099	*108	*113	*117	*121	*123	*123	*122	*120	*116	110	*103	*095
1000	.79	.79	.79	.79	.79	.79	.80	.80	.81	.81	.82	.82	.83	.84	.84	.85	.85	.85	.86	.86	.85	.85	.85	.85
	*118	*116	*115	*115	*116	*119	*122	*128	*133	*139	*145	*151	*160	*165	*168	*171	*172	*172	*170	*167	*162	*156	*148	*140
15	.82	.82	.82	.82	.82	.82	.83	.83	.84	.85	.85	.86	.87	.87	.88	.88	.88	.89	.89	.89	.89	.88	.88	.87
	*160	*158	*157	*158	*160	*164	*168	*174	*180	*186	*192	*198	*207	*211	*214	*216	*217	*216	*213	*209	*203	*196	*188	*179
30	.85	.84	.85	.85	.85	.85	.86	.86	.87	.88	.88	.89	.90	.90	.91	.91	.91	.91	.91	.91	.91	.91	.90	.90
	*196	*195	*195	*197	*200	*204	*209	*216	*222	*228	*234	*240	*248	*252	*255	*256	*256	*255	*251	*246	*240	*232	*223	*213
45	.87	.87	.87	.87	.87	.88	.88	.89	.90	.90	.91	.91	.92	.93	.93	.94	.94	.94	.94	.94	.93	.93	.93	.92
	*227	*227	*228	*230	*234	*239	*244	*252	*258	*265	*271	*277	*285	*288	*290	*291	*291	*288	*283	*278	*271	*262	*253	*242
1100	.89	.89	.89	.89	.89	.90	.90	.91	.92	.92	.93	.94	.95	.95	.95	.96	.96	.96	.96	.96	.95	.95	.94	.94
	*253	*254	*255	*259	*263	*268	*275	*282	*289	*296	*302	*308	*315	*318	*320	*320	*319	*316	*310	*304	*297	287	*277	*266
15	.90	.90	.90	.91	.91	.92	.92	.93	.94	.94	.95	.96	.96	.97	.97	.97	.98	.98	.97	.97	.97	.96	.96	.95
	*274	*275	*278	*282	*287	*293	*299	*308	*315	*322	*328	*334	*341	*343	*344	*344	*342	*338	*332	*325	*316	*307	*296	*285
30	.91	.91	.91	.92	.92	.93	.94	.94	.95	.96	.96	.97	.98	.98	.98	.99	.99	.99	.99	.98	.98	.97	.97	.96
	*289	*291	*294	*299	*305	*311	*319	*327	*335	*342	*348	*354	*360	*362	*363	*362	*359	*355	*347	*340	*331	*320	*309	*297
45	.92	.92	.92	.93	.93	.94	.94	.95	.96	.97	.97	.98	.99	.99	.99	***	***	***	.99	.99	.98	.98	.97	.97
	*298	*301	*305	*311	*317	*324	*332	*341	*349	*356	*362	*368	*374	*375	*375	*374	*370	*365	*357	*349	*339	*328	*317	*305

JAN-APR 0 TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

DATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1200	.92	.92	.93	.93	.94	.94	.95	.96	.97	.97	.98	.99	.99	***	***	***	***	***	***	.99	.99	.98	.98	.97
	*302	*306	*311	*317	*324	*332	*340	*350	*357	*365	*371	*376	*381	*382	*382	*380	*376	*370	*361	*352	*342	*331	*319	*306
15	.92	.92	.93	.93	.94	.94	.95	.96	.97	.97	.98	.99	.99	***	***	***	***	***	.99	.99	.98	.98	.97	.97
	*301	*305	*311	*318	*325	*334	*342	*352	*360	*367	*373	*378	*383	*384	*383	*380	*375	*369	*360	*350	*339	*328	*315	*302
30	.91	.92	.92	.93	.93	.94	.95	.96	.97	.97	.98	.98	.99	.99	***	***	.99	.99	.99	.98	.98	.97	.97	.96
	*294	*298	*305	*313	*321	*330	*338	*349	*357	*364	*370	*375	*379	*379	*378	*374	*369	*362	*352	*342	*331	*319	*306	*293
45	.91	.91	.91	.92	.93	.94	.94	.95	.96	.97	.97	.98	.98	.99	.99	.99	.99	.98	.98	.97	.97	.96	.95	.95
	*281	*286	*294	*302	*311	*320	*329	*340	*348	*355	*361	*365	*369	*369	*367	*363	*357	*350	*339	*328	*316	*304	*291	*278
1300	.89	.90	.90	.91	.92	.92	.93	.94	.95	.96	.96	.97	.97	.97	.98	.97	.97	.97	.96	.96	.95	.95	.94	.93
	*263	*269	*277	*286	*295	*305	*314	*325	*333	*340	*346	*350	*353	*352	*350	*345	*339	*331	*319	*308	*296	*284	*271	*258
15	.88	.88	.89	.89	.90	.91	.92	.93	.93	.94	.95	.95	.96	.96	.96	.96	.96	.95	.95	.94	.93	.93	.92	.91
	*239	*246	*254	*264	*274	*284	*293	*304	*313	*320	*325	*329	*331	*330	*327	*322	*315	*307	*295	*283	*271	*258	*245	*232
30	.86	.86	.87	.87	.88	.89	.90	.91	.92	.92	.93	.93	.94	.94	.94	.94	.93	.93	.92	.92	.91	.90	.90	.89
	*211	*217	*227	*237	*247	*257	*267	*278	*286	*293	*299	*302	*304	*302	*299	*293	*286	*277	*264	*253	*240	*227	*214	*201
45	.83	.84	.84	.85	.86	.87	.88	.89	.89	.90	.91	.91	.91	.91	.91	.91	.91	.90	.90	.89	.89	.88	.87	.86
	*177	*184	*194	*204	*215	*225	*236	*247	*255	*262	*267	*270	*271	*269	*265	*259	*251	*242	*229	*217	*204	*191	*177	*164
1400	.80	.81	.82	.83	.83	.84	.85	.86	.87	.87	.88	.88	.89	.89	.89	.88	.88	.88	.87	.86	.86	.85	.84	.83
	*137	*145	*156	*167	*178	*188	*199	*210	*218	*224	*229	*232	*232	*230	*225	*219	*211	*201	*188	*175	*163	*149	*136	*123
15	.77	.78	.79	.79	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.85	.85	.84	.83	.83	.82	.81	.81	.80
	*094	*102	*113	*124	*135	*146	*157	*168	*176	*182	*186	*189	*189	*186	*181	*174	*165	*155	*142	*129	*116	*103	*090	*077
30	.74	.74	.75	.76	.77	.78	.79	.80	.80	.81	.81	.82	.82	.82	.82	.81	.81	.81	.80	.79	.78	.78	.77	.76
	*045	*054	*065	*076	*088	*099	*110	*121	*128	*134	*139	*141	*140	*137	*131	*124	*115	*105	*091	*078	*065	*052	*039	*026
45	.70	.71	72	.72	.73	.74	.75	.76	.77	.77	.78	.78	.78	.78	.78	.77	.77	.76	.76	.75	.74	.73	.73	.72
	992	*001	*013	*024	*036	*047	*058	*069	*076	*082	*086	*088	*086	*082	*077	*069	*060	*049	*035	*022	*009	996	983	971

JAN-APR 0 TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1500	.66	.67	.68	.68	.69	.70	.71	.72	.73	.73	.74	.74	.74	.74	.74	.73	.73	.72	.71	.71	.70	.69	.68	.68
	935	944	956	968	980	991	*002	*012	*020	*025	*029	*030	*028	*024	*018	*010	*000	989	975	962	949	936	924	912
15	.62	.62	.63	.64	.65	.66	.67	.68	.68	.69	.69	.69	.69	.69	.69	.69	.68	.67	.67	.66	.65	.64	.64	.63
	873	883	895	907	919	931	941	952	959	964	967	968	965	961	954	946	936	925	911	898	885	873	860	849
30	.57	.58	.59	.60	.61	.61	.62	.63	.64	.64	.64	.65	.65	.64	.64	.64	.63	.62	.62	.61	.60	.59	.59	.58
	808	818	831	843	855	866	876	887	893	898	901	902	899	893	887	878	868	857	843	830	817	805	793	782
45	.52	.53	.54	.55	.56	.57	.57	.58	.59	.59	.59	.60	.60	.59	.59	.58	.58	.57	.56	.56	.55	.54	.53	.53
	740	750	762	775	787	798	808	818	824	829	831	832	828	822	815	807	796	785	771	758	745	734	722	712
1600	.47	.48	.49	.50	.51	.51	.52	.53	.54	.54	.54	.54	.54	.54	.54	.53	.52	.52	.51	.50	.49	.49	.48	.47
	668	678	691	703	715	726	736	746	752	756	758	758	753	748	740	732	721	710	696	684	671	660	649	639
15	.42	.43	.44	.45	.45	.46	.47	.48	.48	.49	.49	.49	.49	.48	.48	.47	.47	.46	.45	.44	.44	.43	.42	.42
	593	604	617	629	641	652	661	670	676	680	682	681	676	670	662	653	643	632	618	606	594	583	572	563
30	.37	.37	.38	.39	.40	.41	.41	.42	.43	.43	.43	.43	.43	.43	.42	.42	.41	.40	.39	.39	.38	.37	.37	.36
	516	527	540	552	564	574	583	592	598	601	602	601	596	589	582	572	562	551	537	525	514	503	493	485
45	.31	.32	.33	.33	.34	.35	.36	.36	.37	.37	.37	.37	.37	.37	.36	.35	.35	.34	.33	.33	.32	.31	.31	.30
	437	447	460	472	484	494	503	511	516	519	520	519	513	506	498	489	479	468	454	443	432	422	412	404
1700	.25	.26	.27	.28	.29	.29	.30	.30	.31	.31	.31	.31	.31	.30	.30	.29	.29	.28	.27	.26	.26	.25	.24	.24
	356	366	379	391	402	412	421	429	433	436	436	434	427	421	413	404	393	382	369	358	348	338	329	322
15	.19	.20	.21	.22	.23	.23	.24	.24	.25	.25	.25	.25	.25	.24	.24	.23	.22	.22	.21	.20	.19	.19	.18	.18
	273	283	296	308	319	328	336	344	348	350	350	348	341	334	326	316	306	296	283	272	262	253	245	238
30	.13	.14	.15	.16	.17	.17	.18	.18	.19	.19	.19	.19	.18	.18	.17	.17	.16	.15	.14	.14	.13	.12	.12	.11
	189	199	212	223	234	243	251	257	261	263	262	260	252	245	237	228	218	207	195	185	176	167	160	154
45	.07	.08	.09	.10	.11	.11	.12	.12	.12	.12	.12	.12	.12	.11	.11	.10	.09	.09	.08	.07	.07	.06	.06	.05
	104	115	127	138	148	157	164	170	173	174	174	171	163	156	147	138	128	118	106	097	088	081	074	069

JAN-APR 0 TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30
0600	.02	.02	.02	.02	.01	.01	.01	.00	.00	.00	.00	.00
	020	021	021	020	018	015	009	004	000	000	000	000
15	.08	.08	.08	.08	.08	.07	.07	.06	.06	.06	.05	.05
	104	105	104	103	100	096	090	084	079	073	067	062
30	.14	.14	.14	.14	.14	.13	.13	.12	.12	.12	.11	.11
	188	188	187	184	181	176	170	164	158	152	146	141
45	.20	.20	.20	.20	.20	.19	.19	.18	.18	.17	.17	.17
	272	271	269	265	261	256	249	243	237	231	225	220
0700	.26	.26	.26	.26	.26	.25	.25	.24	.24	.23	.23	.23
	354	352	349	345	340	335	327	321	314	308	303	298
15	.32	.32	.32	.32	.31	.31	.30	.30	.30	.29	.29	.28
	435	432	428	424	418	412	404	397	391	384	379	374
30	.38	.38	.38	.37	.37	.37	.36	.36	.35	.35	.34	.34
	513	510	506	500	494	487	479	472	465	459	454	449
45	.44	.44	.43	.43	.43	.42	.42	.41	.41	.40	.40	.39
	590	586	581	575	568	561	552	545	538	532	526	522
0800	.49	.49	.49	.48	.48	.47	.47	.46	.46	.45	.45	.45
	664	659	653	647	639	632	623	615	608	602	597	593
15	.55	.54	.54	.54	.53	.53	.52	.51	.51	.51	.50	.50
	735	730	723	716	708	700	691	683	676	670	665	661
30	.60	.59	.59	.59	.58	.58	.57	.56	.56	.56	.55	.55
	803	797	790	782	774	765	756	748	741	735	730	726
45	.65	.64	.64	.63	.63	.62	.62	.61	.61	.60	.60	.60
	868	861	853	845	836	827	817	810	803	797	792	789

MST	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
15	.04	.04	.04	.04	.04	.04	.04	.01	.04	.05	.06	.06
	057	053	049	047	046	047	049	053	058	065	073	083
30	.10	.10	.10	.10	.10	.10	.10	.10	.11	.11	.12	.13
	136	132	130	128	128	129	132	137	143	150	159	169
45	.16	.16	.16	.16	.16	.16	.16	.17	.17	.18	.18	.19
	215	212	209	208	209	211	215	220	227	235	244	255
0700	.22	.22	.22	.22	.22	.22	.22	.23	.23	.24	.25	.25
	293	290	288	288	289	291	296	302	310	318	328	339
15	.28	.28	.28	.28	.28	.28	.28	.29	.29	.30	.31	.31
	370	367	366	366	368	371	376	383	391	400	411	423
30	.34	.34	.33	.33	.34	.34	.34	.35	.35	.36	.37	.38
	445	443	442	443	445	448	455	462	471	481	492	504
45	.39	.39	.39	.39	.39	.40	.40	.41	.41	.42	.43	.43
	519	517	516	517	520	524	532	539	549	559	571	583
0800	.45	.44	.44	.45	.45	.45	.46	.46	.47	.48	.48	.49
	590	588	588	590	593	598	606	614	624	635	647	660
15	.50	.50	.50	.50	.50	.50	.51	.52	.52	.53	.54	.55
	658	657	658	660	664	669	678	687	697	708	721	734
30	.55	.55	.55	.55	.55	.56	.56	.57	.57	.58	.59	.60
	724	724	725	727	732	737	747	756	767	779	791	804
45	.59	.59	.60	.60	.60	.60	.61	.62	.62	.63	.64	.65
	787	787	788	791	796	803	812	822	833	845	858	872

MAY-AUG 0 TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.69	.69	.68	.68	.67	.67	.66	.65	.65	.65	.64	.64	.64	.64	.64	.64	.65	.65	.66	.66	.67	.68	.69	.70
	929	921	913	904	895	886	876	868	861	855	851	848	846	846	848	852	857	864	875	885	896	909	922	935
15	.73	.73	.72	.72	.71	.71	.70	.70	.69	.69	.68	.68	.68	.68	.68	.69	.69	.69	.70	.71	.72	.72	.73	.74
	986	977	968	959	950	940	930	922	915	910	906	903	902	902	905	909	915	922	933	944	955	968	981	995
30	.77	.77	.76	.76	.75	.74	.74	.73	.73	.73	.72	.72	.72	.72	.72	.73	.73	.74	.74	.75	.76	.77	.77	.76
	*038	*029	*020	*010	*001	991	981	973	966	961	957	954	954	955	958	962	968	976	988	998	*010	*023	*036	*050
45	.81	.80	.80	.79	.79	.78	.77	.77	.76	.76	.76	.76	.75	.76	.76	.76	.77	.77	.78	.79	.79	.80	.81	.82
	*087	*077	*067	*057	*047	*038	*027	*019	*013	*007	*004	*002	*001	*003	*006	*011	*018	*026	*038	*049	*061	*074	*087	*101
1000	.84	.83	.83	.82	.82	.81	.80	.80	.80	.79	.79	.79	.79	.79	.79	.80	.80	.81	.81	.82	.83	.84	.85	.85
	*130	*120	*110	*099	*089	*080	*069	*061	*055	*050	*046	*045	*045	*047	*050	*056	*063	*071	*084	*095	*107	*120	*134	*147
15	.87	.86	.86	.85	.84	.84	.83	.83	.82	.82	.82	.82	.82	.82	.82	.83	.83	.84	.85	.85	.86	.87	.88	.88
	*169	*159	*148	*137	*127	*117	*106	*099	*092	*088	*085	*083	*084	*086	*090	*096	*103	*112	*125	*138	*149	*162	*175	*188
30	.89	.89	.88	.88	.87	.86	.86	.85	.85	.85	.84	.84	.84	.85	.85	.85	.86	.86	.87	.88	.89	.90	.90	.91
	*203	*192	*181	*170	*159	*149	*139	*131	*125	*121	*118	*117	*118	*121	*125	*131	*139	*148	*161	*173	*185	*198	*211	*224
45	.92	.91	.90	.90	.89	.88	.88	.87	.87	.87	.87	.87	.87	.87	.87	.88	.88	.89	.90	.90	.91	.92	.93	.93
	*231	*220	*209	*198	*187	*177	*167	*159	*154	*149	*147	*146	*148	*151	*156	*162	*170	*180	*192	*204	*217	*229	*242	*255
1100	.93	.93	.92	.91	.91	.90	.90	.89	.89	.89	.88	.88	.89	.89	.89	.90	.90	.91	.92	.92	.93	.94	.95	.95
	*255	*243	*231	*220	*209	*200	*189	*182	*177	*173	*171	*171	*172	*176	*181	*188	*196	*206	*219	*231	*243	*255	*268	*280
15	.95	.94	.93	.93	.92	.91	.91	.90	.90	.90	.90	.90	.90	.90	.91	.91	.92	.92	.93	.94	.95	.95	.96	.97
	*273	*261	*249	*238	*227	*217	*207	*200	*195	*191	*190	*190	*192	*196	*201	*208	*217	*227	*240	*252	*264	*276	*288	*300
30	.96	.95	.94	.94	.93	.92	.92	.91	.91	.91	.91	.91	.91	.91	.92	.92	.93	.94	.94	.95	.96	.97	.97	.98
	*285	*273	*261	*250	*239	*229	*220	*213	*208	*205	*203	*204	*206	*210	*216	*224	*232	*242	*256	*267	*279	*291	*303	*315
45	.96	.95	.95	.94	.93	.93	.92	.92	.92	.92	.92	.92	.92	.92	.93	.93	.94	.94	.95	.96	.97	.97	.98	.98
	*292	*280	*268	*256	*246	*236	*227	*220	*216	*213	*212	*213	*216	*220	*226	*234	*243	*253	*266	*277	*289	*301	*313	*324

MAY-AUG 0 TABLE 8-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.96	.95	.95	.94	.94	.93	.92	.92	.92	.92	.92	.92	.92	.93	.93	.93	.94	.95	.96	.96	.97	.98	.98	.99
	*294	*281	*269	*258	*247	*238	*229	*223	*219	*216	*216	*217	*220	*225	*231	*239	*248	*258	*271	*282	*294	*305	*316	*327
15	.96	.95	.94	.94	.93	.93	.92	.92	.92	.92	.92	.92	.92	.92	.93	.93	.94	.95	.95	.96	.97	.97	.98	.99
	*290	*277	*265	*254	*243	*234	*226	*220	*216	*214	*214	*215	*219	*224	*230	*238	*247	*257	*270	*281	*293	*304	*314	*324
30	.95	.94	.94	.93	.93	.92	.92	.91	.91	.91	.91	.91	.92	.92	.92	.93	.94	.94	.95	.96	.96	.97	.97	.98
	*280	*268	*256	*244	*234	*226	*217	*212	*208	*207	*207	*209	*212	*218	*224	*233	*242	*252	*264	*275	*286	*297	*307	*316
45	.94	.93	.93	.92	.91	.91	.91	.90	.90	.90	.90	.90	.91	.91	.92	.92	.93	.93	.94	.95	.95	.96	.96	.97
	*265	*252	*241	*230	*220	*211	*203	*198	*195	*194	*195	*197	*201	*206	*213	*222	*231	*241	*253	*264	*274	*284	*293	*302
1300	.93	.92	.91	.91	.90	.90	.89	.89	.89	.89	.89	.89	.89	.90	.90	.91	.92	.92	.93	.94	.94	.95	.95	.95
	*245	*232	*220	*210	*200	*192	*184	*180	*177	*176	*177	*180	*184	*190	*197	*205	*214	*224	*236	*246	*256	*266	*275	*282
15	.91	.90	.89	.89	.88	.88	.87	.87	.87	.87	.87	.87	.88	.88	.89	.89	.90	.91	.91	.92	.92	.93	.93	.94
	*219	*206	*195	*184	*175	*168	*161	*156	*154	*154	*155	*158	*162	*168	*176	*184	*193	*202	*214	*224	*233	*242	*250	*258
30	.88	.88	.87	.86	.86	.86	.85	.85	.85	.85	.85	.85	.86	.86	.87	.87	.88	.89	.89	.90	.90	.91	.91	.91
	*188	*176	*164	*154	*145	*138	*132	*128	*126	*126	*128	*131	*136	*142	*149	*157	*166	*176	*187	*196	*205	*213	*221	*227
45	.86	.85	.84	.84	.83	.83	.83	.82	.82	.83	.83	.83	.83	.84	.84	.85	.86	.86	.87	.87	.88	.88	.88	.89
	*152	*140	*129	*119	*111	*104	*098	*095	*093	*094	*096	*099	*104	*110	*118	*126	*135	*144	*155	*164	*172	*179	*186	*192
1400	.83	.82	.81	.81	.80	.80	.80	.80	.80	.80	.80	.80	.81	.81	.82	.82	.83	.83	.84	.84	.85	.85	.86	.86
	*111	*099	*088	*079	*071	*065	*059	*057	*056	*057	*059	*063	*068	*074	*082	*090	*098	*107	*117	*126	*133	*140	*146	*151
15	.79	.79	.78	.77	.77	.77	.77	.76	.76	.77	.77	.77	.78	.78	.79	.79	.80	.80	.81	.81	.82	.82	.82	.82
	*065	*053	*043	*034	*027	*021	*016	*014	*014	*015	*018	*022	*027	*034	*041	*049	*057	*066	*075	*083	*090	*096	*101	*105
30	.75	.75	.74	.74	.73	.73	.73	.73	.73	.73	.73	.74	.74	.75	.75	.76	.76	.77	.77	.78	.78	.78	.78	.79
	*014	*004	994	985	979	973	969	967	967	969	972	976	982	988	996	*003	*011	*019	*029	*038	*042	*048	*052	*055
45	.71	.71	.70	.70	.69	.69	.69	.69	.69	.69	.70	.70	.70	.71	.71	.72	.72	.73	.74	.74	.74	.74	.74	.74
	960	949	940	932	926	921	918	916	917	919	922	927	932	939	946	954	961	969	978	984	990	995	998	*000

MAY-AUG 0 TABLE B-1 SOLAR PARAMETERS COS Z X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30
1500	.67	.66	.66	.66	.65	.65	.65	.65	.65	.65	.66	.66
	901	891	882	875	869	865	862	862	862	865	868	873
15	.62	.62	.61	.61	.61	.61	.60	.61	.61	.61	.61	.62
	838	829	821	814	809	805	803	803	804	807	811	815
30	.57	.57	.56	.56	.56	.56	.56	.56	.56	.56	.57	.57
	772	763	756	750	745	742	741	741	743	746	750	755
45	.52	.52	.51	.51	.51	.51	.51	.51	.51	.51	.52	.52
	702	694	687	682	678	676	675	676	678	681	686	691
1600	.47	.46	.46	.46	.46	.46	.46	.46	.46	.46	.47	.47
	630	622	616	611	608	606	606	608	610	614	619	624
15	.41	.41	.41	.40	.40	.40	.40	.40	.41	.41	.41	.42
	555	548	542	538	536	534	535	537	540	544	549	554
30	.35	.35	.35	.35	.35	.35	.35	.35	.35	.36	.36	.36
	477	471	466	463	461	460	461	464	467	472	477	482
45	.30	.29	.29	.29	.29	.29	.29	.29	.30	.30	.30	.31
	397	392	388	385	384	384	386	389	393	397	403	408
1700	.24	.23	.23	.23	.23	.23	.23	.24	.24	.24	.25	.25
	316	311	308	306	305	306	309	312	316	321	327	332
15	.17	.17	.17	.17	.17	.17	.17	.18	.18	.18	.19	.19
	233	229	227	225	226	227	230	234	239	244	249	255
30	.11	.11	.11	.11	.11	.11	.11	.12	.12	.13	.13	.13
	149	146	144	144	145	147	151	155	160	165	171	177
45	.05	.05	.05	.05	.05	.05	.05	.06	.06	.07	.07	.07
	065	063	062	062	064	066	071	076	081	086	092	098

DATE

MST	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
1500	.66	.67	.67	.68	.68	.69	.69	.70	.70	.70	.70	.70
	879	885	892	900	907	915	923	928	933	937	940	941
15	.62	.63	.63	.64	.64	.64	.65	.65	.65	.65	.65	.65
	822	828	835	842	849	856	863	869	873	876	877	878
30	.58	.58	.58	.59	.59	.60	.60	.60	.61	.61	.61	.60
	761	767	774	781	788	794	800	805	808	810	811	811
45	.53	.53	.54	.54	.54	.55	.55	.55	.55	.55	.55	.55
	697	703	710	716	723	728	734	738	741	742	742	740
1600	.48	.48	.49	.49	.49	.50	.50	.50	.50	.50	.50	.50
	630	636	643	649	655	660	665	668	670	670	669	667
15	.42	.43	.43	.44	.44	.44	.45	.45	.45	.45	.44	.44
	560	566	572	578	584	588	592	595	596	595	594	590
30	.37	.37	.38	.38	.38	.39	.39	.39	.39	.39	.38	.38
	488	494	500	505	510	514	518	519	519	518	515	511
45	.31	.32	.32	.33	.33	.33	.33	.33	.33	.33	.32	.32
	414	420	425	430	435	438	441	441	441	439	435	430
1700	.26	.26	.26	.27	.27	.27	.27	.27	.27	.27	.26	.26
	338	344	349	353	357	360	362	362	360	357	353	347
15	.20	.20	.20	.21	.21	.21	.21	.21	.21	.21	.20	.20
	261	266	271	275	278	280	281	280	278	274	269	263
30	.14	.14	.15	.15	.15	.15	.15	.15	.15	.14	.14	.13
	182	187	192	195	198	199	199	198	195	190	184	177
45	.08	.08	.08	.09	.09	.09	.09	.09	.08	.08	.07	.07
	103	108	112	115	117	118	117	115	111	105	099	091

MAY-AUG 0 TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.01	.01	.02	.03	.04	.05	.05	.06	.06	.07	.07	.07	.07	.07	.06	.06	.05	.04	.04	.03	.02	.01	.00	.00
	008	018	030	041	052	062	072	080	087	092	095	096	095	092	087	080	071	062	050	036	020	013	000	000
15	.07	.08	.09	.10	.10	.11	.12	.12	.13	.13	.13	.13	.12	.13	.12	.12	.11	.10	.10	.09	.08	.07	.06	.05
	095	106	118	129	141	151	161	169	176	181	183	184	183	179	173	166	157	147	136	123	111	098	084	072
30	.14	.14	.15	.16	.17	.18	.18	.19	.19	.19	.20	.20	.19	.19	.19	.18	.17	.17	.16	.15	.14	.13	.12	.11
	182	194	206	218	229	240	249	257	264	268	271	272	269	265	259	252	242	232	220	208	195	182	169	156
45	.20	.21	.22	.22	.23	.24	.25	.25	.25	.26	.26	.26	.26	.25	.25	.24	.23	.22	.22	.21	.20	.19	.18	.17
	269	281	293	305	316	327	337	345	351	355	357	358	355	351	344	336	327	316	304	291	279	266	253	241
0700	.26	.27	.28	.29	.30	.30	.31	.31	.32	.32	.32	.32	.32	.31	.31	.30	.29	.28	.27	.27	.26	.25	.24	.23
	354	366	379	391	403	413	423	430	436	440	442	442	439	434	427	419	409	398	386	371	361	348	336	324
15	.32	.33	.34	.35	.36	.36	.37	.37	.38	.38	.38	.38	.37	.37	.36	.36	.35	.34	.33	.32	.31	.30	.30	.29
	437	450	463	475	487	497	507	514	520	524	525	525	521	516	509	500	490	479	467	455	442	429	417	405
30	.39	.39	.40	.41	.42	.42	.43	.43	.44	.44	.44	.44	.43	.43	.42	.41	.41	.40	.39	.38	.37	.36	.35	.34
	519	532	545	557	569	580	589	596	602	605	606	605	601	596	588	579	569	558	546	533	521	508	497	485
45	.44	.45	.46	.47	.48	.48	.49	.49	.49	.49	.49	.49	.49	.48	.48	.47	.46	.45	.44	.43	.42	.41	.41	.40
	599	612	625	637	649	659	668	675	680	683	684	683	678	673	665	656	645	634	622	610	596	585	574	563
0800	.50	.51	.52	.53	.53	.54	.54	.55	.55	.55	.55	.55	.54	.53	.53	.52	.51	.50	.49	.48	.48	.47	.46	.45
	676	689	702	714	726	736	745	752	756	759	759	758	755	747	739	730	719	708	696	684	672	660	649	639
15	.56	.56	.57	.58	.59	.59	.60	.60	.60	.60	.60	.60	.59	.59	.58	.57	.56	.55	.54	.53	.53	.52	.51	.50
	750	763	776	789	800	810	818	825	829	831	831	829	824	818	810	800	790	778	767	755	743	732	721	711
30	.61	.62	.63	.63	.64	.64	.65	.65	.65	.65	.65	.65	.64	.63	.63	.62	.61	.60	.59	.58	.57	.57	.56	.55
	821	834	847	859	870	880	888	894	898	900	900	897	892	885	877	867	857	846	834	822	811	800	790	781
45	.66	.67	.67	.68	.69	.69	.70	.70	.70	.70	.70	.69	.69	.68	.67	.66	.66	.65	.64	.63	.62	.61	.61	.60
	888	901	914	926	937	946	954	960	963	965	964	962	956	949	941	931	920	909	898	887	876	865	856	848

SEP-DEC 0 TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900		.71	.71	.72	.73	.73	.74	.74	.74	.74	.74	.74	.74	.73	.72	.71	.71	.70	.69	.68	.67	.67	.66	.65	.64
		952	965	978	989	*000	*009	*016	*021	*025	*026	*025	*022	*016	*008	000	990	980	969	958	947	937	927	918	910
15		.75	.76	.77	.77	.78	.78	.78	.78	.78	.78	.78	.78	.77	.76	.75	.75	.74	.73	.72	.71	.70	.70	.69	.69
		*011	*024	*037	*048	*058	*067	*074	*079	*081	*082	*081	*077	*071	*064	*055	*046	*035	*025	*014	*003	993	984	976	969
30		.79	.80	.81	.81	.82	.82	.82	.82	.82	.82	.82	.81	.81	.80	.79	.78	.77	.76	.76	.75	.74	.73	.73	.72
		*066	*079	*091	*103	*112	*120	*127	*131	*134	*134	*132	*129	*122	*115	*106	*096	*086	*076	*066	*055	*045	*038	*030	*024
45		.83	.84	.84	.85	.85	.86	.86	.86	.86	.85	.85	.85	.84	.83	.82	.81	.81	.80	.79	.78	.77	.77	.76	.76
		*117	*129	*141	*152	*161	*169	*175	*179	*181	*181	*179	*175	*168	*160	*152	*143	*133	*123	*113	*103	*094	*086	*080	*074
1000		.86	.87	.88	.88	.88	.89	.89	.89	.89	.88	.88	.88	.87	.86	.85	.84	.84	.83	.82	.81	.81	.80	.80	.79
		*163	*175	*186	*197	*206	*213	*218	*222	*223	*223	*220	*216	*209	*201	*193	*184	*174	*164	*155	*145	*138	*130	*124	*120
15		.89	.90	.91	.91	.91	.92	.92	.92	.91	.91	.91	.90	.89	.89	.88	.87	.86	.85	.85	.84	.83	.83	.82	.82
		*203	*215	*227	*236	*245	*251	*256	*259	*260	*259	*257	*252	*245	*237	*229	*220	*211	*201	*192	*184	*176	*170	*165	*161
30		.92	.93	.93	.94	.94	.94	.94	.94	.94	.93	.93	.92	.92	.91	.90	.89	.88	.88	.87	.86	.86	.85	.85	.85
		*239	*251	*261	*271	*278	*285	*289	*291	*292	*290	*287	*283	*275	*268	*260	*251	*242	*233	*224	*217	*210	204	*200	*197
45		.94	.95	.95	.96	.96	.96	.96	.96	.96	.95	.95	.94	.93	.93	.92	.91	.90	.89	.89	.88	.88	.87	.87	.87
		*269	*281	*291	*299	*307	*312	*316	*318	*318	*316	*313	*308	*300	*293	*285	*276	*268	*259	*251	*244	*238	*233	*230	*228
1100		.96	.97	.97	.97	.98	.98	.98	.97	.97	.97	.96	.96	.95	.94	.93	.92	.92	.91	.90	.90	.89	.89	.89	.89
		*294	*305	*315	*323	*329	*334	*337	*339	*338	*336	*333	*328	*320	*313	*305	*296	*288	*280	*273	*267	*261	*257	*254	*253
15		.97	.98	.98	.99	.99	.99	.99	.99	.98	.98	.97	.97	.96	.95	.94	.93	.93	.92	.91	.91	.91	.90	.90	.90
		*314	*324	*333	*340	*346	*351	*353	*354	*353	*351	*347	*341	*334	*327	*319	*311	*303	*296	*289	*283	*279	*276	*274	*273
30		.98	.99	.99	***	***	***	.99	.99	.99	.98	.98	.97	.96	.96	.95	.94	.93	.93	.92	.92	.91	.91	.91	.91
		*328	*337	*345	*352	*357	*361	*363	*363	*362	*359	*355	*350	*342	*335	*327	*320	*313	*306	*300	*295	*291	*289	*288	*288
45		.99	.99	***	***	***	***	***	.99	.99	.99	.98	.97	.96	.96	.95	.94	.94	.93	.93	.92	.92	.92	.92	.92
		*336	*344	*352	*358	*363	*366	*367	*367	*365	*362	*357	*352	*344	*337	*330	*323	*316	*310	*305	*301	*298	*296	*296	*297

SEP-DEC 0 TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.99	***	***	***	***	***	***	.99	.99	.98	.98	.97	.96	.96	.95	.94	.94	.93	.93	.92	.92	.92	.92	.92
	*338	*346	*353	*353	*362	*365	*365	*365	*362	*359	*354	*349	*341	*334	*327	*321	*315	*309	*304	*301	*299	*298	*299	*301
15	.99	.99	.99	***	***	.99	.99	.99	.98	.98	.97	.96	.96	.95	.94	.94	.93	.93	.92	.92	.92	.92	.92	.92
	*335	*342	*348	*353	*356	*358	*358	*356	*354	*350	*345	*339	*332	*325	*319	*313	*307	*302	*298	*295	*294	*294	*296	*299
30	.98	.99	.99	.99	.99	.98	.98	.98	.97	.97	.96	.95	.95	.94	.93	.93	.92	.92	.91	.91	.91	.91	.91	.91
	*325	*332	*338	*342	*344	*345	*344	*342	*339	*335	*330	*324	*317	*311	*305	*299	*294	*290	*287	*285	*284	*285	*288	*292
45	.97	.97	.98	.97	.97	.97	.97	.96	.96	.95	.94	.94	.93	.92	.92	.91	.91	.90	.90	.90	.90	.90	.90	.90
	*311	*317	*321	*324	*326	*326	*325	*323	*319	*315	*310	*304	*297	*291	*285	*280	*275	*272	*269	*267	*267	*271	*274	*279
1300	.96	.96	.96	.96	.96	.95	.95	.94	.94	.93	.93	.92	.91	.91	.90	.89	.89	.89	.88	.88	.88	.88	.89	.89
	*290	*296	*299	*302	*303	*302	*300	*297	*293	*289	*283	*278	*271	*265	*260	*255	*251	*248	*247	*247	*248	*250	*255	*260
15	.94	.94	.94	.94	.93	.93	.93	.92	.92	.91	.90	.90	.89	.88	.88	.87	.87	.87	.86	.86	.86	.87	.87	.87
	*264	*269	*272	*273	*273	*272	*270	*266	*262	*257	*252	*246	*239	*234	*229	*225	*222	*220	*219	*220	*222	*225	*230	*236
30	.91	.92	.91	.91	.91	.91	.90	.89	.89	.88	.88	.87	.86	.86	.85	.85	.84	.84	.84	.84	.84	.84	.85	.85
	*233	*237	*239	*239	*239	*237	*234	*230	*225	*220	*215	*209	*202	*197	*193	*190	*187	*186	*186	*187	*190	*194	*200	*207
45	.89	.89	.89	.88	.88	.88	.87	.86	.86	.85	.85	.84	.83	.83	.82	.82	.82	.81	.81	.81	.82	.82	.82	.83
	*197	*199	*200	*200	*199	*196	*193	*188	*183	*178	*172	*167	*161	*156	*152	*149	*147	*147	*148	*150	*153	*159	*165	*173
1400	.86	.86	.85	.85	.85	.84	.84	.83	.82	.82	.81	.81	.80	.79	.79	.79	.78	.78	.78	.78	.79	.79	.80	.80
	*155	*157	*157	*156	*154	*151	*147	*142	*136	*131	*125	*120	*114	*109	*106	*104	*103	*103	*104	*107	*112	*118	*125	*133
15	.82	.82	.82	.81	.81	.81	.80	.79	.79	.78	.77	.77	.76	.76	.75	.75	.75	.75	.75	.75	.75	.76	.76	.77
	*108	*109	*109	*107	*104	*100	*095	*090	*084	*079	*073	*068	*062	*058	*055	*054	*053	*054	*057	*060	*065	*072	*080	*089
30	.78	.78	.78	.78	.77	.76	.76	.75	.75	.74	.73	.73	.72	.72	.71	.71	.71	.71	.71	.71	.72	.72	.73	.74
	*057	*057	*055	*053	*049	*045	*040	*034	*028	*022	*016	*011	*006	003	000	999	999	001	*004	*008	*015	*022	*031	*040
45	.74	.74	.74	.73	.73	.72	.71	.71	.70	.70	.69	.68	.68	.67	.67	.67	.67	.67	.67	.67	.68	.68	.69	.70
	*001	000	998	994	990	985	979	973	967	961	955	950	945	942	941	940	941	944	947	953	959	967	977	987

SEP-DEC 0 TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500		.70	.69	.69	.69	.68	.67	.67	.66	.65	.65	.64	.64	.63	.63	.63	.63	.63	.63	.63	.63	.64	.64	.65	.66
		941	939	936	932	927	921	915	908	902	896	890	885	881	878	877	877	879	882	887	893	900	909	919	929
15		.65	.65	.64	.64	.63	.62	.62	.61	.60	.60	.59	.59	.58	.58	.58	.58	.58	.58	.58	.58	.59	.60	.61	.61
		876	874	870	865	859	853	846	840	833	827	821	817	813	811	810	811	813	817	822	829	837	846	857	868
30		.60	.60	.59	.59	.58	.57	.57	.56	.55	.55	.54	.54	.53	.53	.53	.53	.53	.53	.54	.54	.55	.55	.56	.57
		808	805	800	795	788	781	774	767	760	754	749	744	741	739	739	741	744	748	754	761	770	780	791	803
45		.55	.54	.54	.53	.52	.52	.51	.50	.50	.49	.49	.48	.48	.48	.48	.48	.48	.48	.48	.48	.50	.50	.51	.52
		737	733	727	721	714	706	699	692	685	678	673	669	666	665	665	667	671	676	683	691	700	711	722	734
1600		.49	.49	.48	.47	.47	.46	.45	.45	.44	.43	.43	.43	.42	.42	.42	.42	.42	.43	.43	.44	.44	.45	.46	.47
		662	657	651	644	636	629	621	613	606	600	595	591	586	587	588	591	595	601	609	617	627	638	650	662
15		.43	.43	.42	.42	.41	.40	.39	.39	.38	.38	.37	.37	.36	.36	.36	.37	.37	.37	.38	.38	.39	.40	.41	.42
		585	579	572	564	556	548	540	532	525	519	514	510	508	508	509	512	517	524	532	541	551	563	575	587
30		.37	.37	.36	.36	.35	.34	.33	.33	.32	.32	.31	.31	.31	.31	.31	.31	.31	.32	.32	.33	.34	.34	.35	.36
		505	498	491	482	474	465	456	448	441	435	430	427	425	426	428	432	437	444	453	462	473	485	497	510
45		.31	.31	.30	.29	.29	.28	.27	.26	.26	.25	.25	.25	.24	.25	.25	.25	.25	.26	.26	.27	.28	.29	.30	.30
		423	415	407	398	389	380	371	363	356	350	345	342	341	342	344	349	355	363	372	382	393	405	418	431
1700		.25	.25	.24	.23	.22	.21	.21	.20	.20	.19	.19	.18	.18	.18	.19	.19	.19	.20	.21	.21	.22	.23	.24	.25
		339	331	322	312	303	293	284	276	269	263	259	256	255	256	260	265	271	279	289	300	311	324	337	350
15		.19	.18	.17	.17	.16	.15	.14	.14	.13	.13	.12	.12	.12	.12	.12	.13	.13	.14	.15	.15	.16	.17	.18	.19
		253	245	235	225	215	205	196	188	181	175	171	169	168	170	174	179	186	195	205	216	228	241	254	267
30		.12	.12	.11	.10	.09	.09	.08	.07	.07	.06	.06	.06	.06	.06	.06	.07	.07	.08	.09	.09	.10	.11	.12	.13
		167	157	147	137	127	117	107	099	092	086	082	080	081	083	087	093	101	110	120	132	144	157	170	183
45		.06	.05	.04	.04	.03	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00	.01	.01	.02	.03	.03	.04	.05	.06	.07
		080	070	059	048	038	027	018	009	002	000	000	000	000	000	000	007	015	024	035	047	059	072	085	099

SEP-DEC 0 TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.07	.06	.05	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	092	079	063	046	029	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0600	.12	.11	.10	.09	.08	.07	.05	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	172	159	143	127	110	093	077	057	042	028	014	002	000	000	000	000	000	000	000	000	000	000	000	000
15	.18	.17	.16	.15	.14	.12	.11	.10	.09	.08	.07	.06	.05	.04	.04	.03	.03	.02	.02	.01	.00	.00	.00	.00
	252	240	224	208	192	175	159	140	126	112	099	087	070	061	052	044	037	029	021	013	006	000	000	000
30	.23	.23	.22	.20	.19	.18	.17	.16	.15	.14	.13	.12	.11	.11	.10	.09	.09	.08	.08	.07	.07	.06	.05	.05
	332	320	305	289	273	257	242	223	209	196	183	172	155	146	137	129	121	113	104	095	088	079	070	060
45	.29	.28	.27	.26	.25	.24	.23	.22	.21	.20	.19	.18	.17	.17	.16	.15	.15	.14	.14	.13	.12	.12	.11	.10
	411	399	385	369	354	339	324	306	292	279	267	256	240	230	221	213	205	197	187	179	169	160	150	139
0700	.35	.34	.33	.32	.31	.30	.29	.28	.27	.26	.25	.24	.23	.23	.22	.22	.21	.20	.20	.19	.18	.18	.17	.16
	489	478	464	449	434	419	405	388	375	362	351	339	323	314	305	296	288	279	269	259	250	239	229	217
15	.40	.39	.38	.37	.36	.35	.34	.33	.33	.32	.31	.30	.29	.29	.28	.27	.27	.26	.26	.25	.24	.23	.23	.22
	566	555	541	527	513	499	485	469	456	444	433	422	406	396	387	378	369	360	349	339	329	318	306	294
30	.45	.45	.44	.43	.42	.41	.40	.39	.38	.37	.37	.36	.35	.34	.34	.33	.33	.32	.31	.31	.30	.29	.28	.27
	641	631	618	604	591	577	564	549	536	525	513	503	487	477	468	459	450	440	428	417	406	394	382	369
45	.51	50	.49	.48	.47	.46	.45	.45	.44	.43	.42	.42	.41	.40	.40	.39	.38	.38	.37	.36	.35	.35	.34	.33
	715	705	692	679	666	653	641	626	614	603	592	582	565	557	547	537	528	517	504	493	481	468	455	442

JAN-APR 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0800	.56	.55	.54	.53	.52	.52	.51	.50	.49	.48	.48	.47	.45	.46	.45	.44	.44	.43	.42	.42	.41	.40	.39	.38
	786	777	765	752	740	728	716	702	690	680	669	659	643	633	624	614	603	593	579	567	554	540	526	512
15	.60	.60	.59	.58	.57	.57	.56	.55	.54	.54	.53	.53	.52	.51	.50	.50	.49	.48	.48	.47	.46	.45	.44	.43
	855	846	834	823	811	800	788	775	764	754	743	733	718	708	698	687	676	665	650	638	624	610	595	580
30	.65	.64	.64	.63	.62	.62	.61	.60	.59	.59	.58	.58	.57	.56	.56	.55	.54	.54	.53	.52	.51	.50	.49	.48
	920	912	901	890	879	869	858	845	835	825	815	805	789	779	769	758	747	735	719	709	697	676	660	644
45	.69	.69	.68	.68	.67	.66	.66	.65	.64	.64	.63	.63	.62	.61	.60	.60	.59	.58	.57	.56	.56	.55	.53	.52
	983	975	965	955	945	935	925	913	903	893	883	874	858	847	837	825	813	801	785	770	755	739	723	706
0900	.74	.73	.73	.72	.71	.71	.70	.69	.69	.68	.68	.67	.66	.66	.65	.64	.64	.63	.62	.61	.60	.59	.58	.57
	*042	*035	*026	*016	*007	997	988	977	967	958	948	939	923	912	901	889	877	863	846	831	815	798	781	764
15	.78	.77	.77	.76	.75	.75	.74	.74	.73	.73	.72	.72	.71	.70	.70	.69	.68	.67	.66	.65	.64	.63	.62	.61
	*098	*091	*083	*074	*065	*056	*048	*037	*028	*019	*010	*000	984	973	962	949	936	922	904	888	872	854	836	818
30	.81	.81	.80	.80	.79	.79	.78	.78	.77	.77	.76	.76	.75	.74	.74	.73	.72	.71	.70	.69	.68	.67	.66	.64
	*150	*144	*136	*128	*120	*112	*104	*094	*085	*076	*067	*058	*041	*030	*018	*006	992	977	958	942	924	906	887	868
45	.85	.84	.84	.83	.83	.82	.82	.81	.81	.81	.80	.80	.79	.78	.77	.77	.76	.75	.74	.73	.72	.70	.69	.68
	*197	*192	*185	*178	*170	*163	*155	*146	*138	*129	*121	*111	*094	*083	*071	*057	*043	*028	*008	990	972	953	934	914
1000	.88	.87	.87	.87	.86	.86	.85	.85	.84	.84	.84	.83	.82	.82	.81	.80	.79	.78	.77	.75	.75	.73	.72	.71
	*241	*236	*229	*223	*217	*210	*203	*194	*186	*178	*169	*160	*143	*131	*119	*105	*090	*074	*053	*035	*016	996	976	955
15	.90	.90	.90	.89	.89	.89	.88	.88	.88	.87	.87	.86	.85	.85	.84	.83	.82	.81	.80	.79	.78	.76	.75	.74
	*279	*275	*270	*264	*258	*252	*246	*238	*230	*222	*214	*204	*187	*175	*162	*147	*132	*115	*093	*074	*055	*034	*013	992
30	.93	.93	.92	.92	.92	.91	.91	.91	.90	.90	.90	.89	.88	.87	.87	.86	.85	.84	.83	.81	.80	.79	.77	.76
	*314	*310	*305	*300	*295	*290	*284	*277	*270	*262	*253	*244	*226	*214	*200	*185	*169	*151	*129	*109	*089	*068	*046	*025
45	.95	.95	.94	.94	.94	.94	.93	.93	.93	.92	.92	.92	.91	.90	.89	.88	.87	.86	.85	.84	.82	.81	.79	.78
	*343	*340	*336	*332	*328	*323	*318	*311	*304	*296	*288	*278	*260	*247	*233	*218	*201	*183	*159	*139	*118	*096	*074	*052

JAN-APR 20 S TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1100	.97	.96	.96	.96	.96	.96	.95	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89	.88	.87	.85	.84	.83	.81	.80
	*367	*365	*362	*359	*355	*351	*346	*339	*333	*326	*317	*307	*289	*276	*261	*245	*228	*209	*185	*161	*142	*119	*097	*074
15	.98	.98	.98	.98	.97	.97	.97	.97	.97	.96	.96	.95	.94	.94	.93	.92	.91	.90	.88	.87	.85	.84	.82	.81
	*387	*385	*383	*380	*377	*373	*369	*363	*357	*350	*341	*332	*313	*299	*284	*267	*249	*230	*205	*183	*161	*138	*115	*092
30	.99	.99	.99	.99	.99	.99	.98	.98	.98	.98	.97	.97	.96	.95	.94	.93	.92	.91	.89	.88	.86	.85	.83	.82
	*401	*400	*398	*396	*394	*391	*387	*382	*376	*369	*360	*350	*331	*317	*301	*284	*265	*245	*220	*197	*174	*151	*127	*104
45	***	***	***	***	.99	.99	.99	.99	.99	.99	.98	.98	.97	.96	.95	.94	.93	.91	.90	.88	.87	.85	.84	.82
	*410	*409	*409	*407	*406	*403	*400	*395	*389	*382	*374	*363	*344	*329	*313	*295	*276	*255	*229	*205	*182	*158	*134	*111
1200	***	***	***	***	***	***	***	***	.99	.99	.99	.98	.97	.96	.95	.94	.93	.92	.90	.89	.87	.86	.84	.82
	*414	*414	*414	*413	*412	*410	*407	*403	*397	*390	*382	*371	*351	*336	*319	*301	*281	*260	*233	*209	*185	*160	*136	*112
15	***	***	***	***	***	***	***	***	***	.99	.99	.98	.97	.96	.95	.94	.93	.92	.90	.89	.87	.85	.84	.82
	*412	*413	*414	*414	*413	*412	*409	*405	*400	*393	*384	*373	*353	*337	*320	*301	*281	*259	*231	*207	*182	*157	*133	*109
30	.99	.99	***	***	***	***	***	***	.99	.99	.99	.98	.97	.96	.95	.94	.93	.91	.89	.88	.86	.85	.83	.82
	*405	*407	*408	*409	*409	*408	*406	*402	*397	*390	*381	*370	*349	*333	*315	*296	*275	*252	*224	*199	*174	*149	*124	*100
45	.98	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.97	.96	.95	.94	.93	.92	.90	.89	.87	.85	.84	.82	.80
	*394	*396	*398	*399	*400	*399	*397	*393	*388	*381	*372	*361	*339	*323	*305	*285	*263	*240	*211	*185	*161	*135	*110	*086
1300	.97	.97	.98	.98	.98	.98	.98	.98	.98	.97	.97	.96	.95	.94	.93	.92	.91	.89	.87	.85	.84	.82	.81	.79
	*377	*379	*382	*384	*385	*385	*383	*379	*374	*367	*358	*347	*324	*308	*289	*269	*246	*223	*193	*169	*142	*116	*091	*066
15	.96	.96	.96	.96	.97	.97	.97	.97	.96	.96	.96	.95	.94	.93	.92	.90	.89	.87	.86	.84	.82	.81	.79	.77
	*354	*358	*361	*363	*365	*365	*364	*360	*355	*348	*339	*327	*304	*287	*268	*247	*224	*200	*170	*146	*118	*092	*067	*042
30	.94	.94	.94	.95	.95	.95	.95	.95	.95	.94	.94	.93	.92	.91	.90	.88	.87	.85	.83	.82	.80	.78	.77	.75
	*327	*331	*335	*338	*340	*340	*339	*336	*330	*323	*314	*302	*278	*261	*241	*220	*196	*172	*142	*115	*088	*063	*037	*013
45	.92	.92	.92	.92	.93	.93	.93	.93	.93	.92	.92	.91	.90	.89	.87	.86	.85	.83	.81	.79	.78	.76	.74	.73
	*295	*299	*304	*307	*309	*310	*309	*306	*301	*293	*284	*272	*247	*229	*209	*187	*164	*139	*108	*082	*055	*029	*003	979

JAN-APR 20 S TABLE B-1 SOLAR PARAMETERS COS Z
Y0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1400	.89	.89	.90	.90	.90	.90	.90	.90	.90	.90	.89	.89	.87	.86	.85	.83	.82	.80	.78	.76	.75	.73	.71	.70
	*259	*263	*268	*272	*274	*275	*275	*271	*265	*258	*249	*238	*211	*193	*172	*150	*126	*101	*069	*043	*016	990	964	940
15	.86	.86	.87	.87	.87	.88	.88	.88	.87	.87	.86	.86	.84	.83	.82	.80	.79	.77	.75	.73	.72	.70	.68	.66
	*217	*222	*228	*232	*235	*236	*235	*232	*226	*219	*208	*196	*170	*151	*130	*108	*083	*058	*026	999	973	946	921	897
30	.83	.83	.84	.84	.84	.84	.84	.84	.84	.84	.83	.82	.81	.80	.78	.77	.75	.74	.72	.70	.68	.66	.65	.63
	*172	*177	*183	*187	*190	*192	*191	*187	*182	*174	*163	*150	*124	*105	*084	*061	*036	*010	978	951	925	898	873	849
45	.79	.80	.80	.81	.81	.81	.81	.81	.81	.80	.80	.79	.77	.76	.75	.73	.72	.70	.68	.66	.64	.62	.61	.59
	*122	*127	*134	*138	*142	*143	*142	*139	*133	*125	*114	*101	*073	*054	*032	*009	984	958	926	899	872	846	821	797
1500	.75	.76	.76	.77	.77	.77	.77	.77	.77	.76	.76	.75	.73	.72	.71	.69	.67	.66	.64	.62	.60	.58	.57	.55
	*068	*074	*080	*085	*089	*090	*089	*086	*080	*071	*060	*046	*019	999	977	953	928	902	870	843	816	790	765	742
15	.71	.72	.72	.73	.73	.73	.73	.73	.73	.72	.72	.71	.69	.68	.66	.65	.63	.61	.59	.57	.56	.54	.52	.51
	*010	*017	*023	*028	*032	*033	*033	*029	*022	*014	*002	988	960	940	917	893	868	841	809	782	756	730	705	682
30	.67	.68	.68	.68	.69	.69	.69	.69	.68	.68	.67	.66	.65	.63	.62	.60	.58	.57	.55	.53	.51	.49	.48	.46
	949	956	962	968	971	973	972	968	961	952	940	926	897	877	854	830	804	777	745	718	692	666	642	619
45	.63	.63	.64	.64	.64	.64	.64	.64	.64	.63	.63	.62	.60	.58	.57	.55	.54	.52	.50	.48	.46	.44	.43	.41
	885	891	898	904	907	909	908	903	896	887	875	860	831	810	787	762	737	710	678	651	625	600	576	554
1600	.58	.58	.59	.59	.59	.60	.60	.59	.59	.58	.58	.57	.55	.53	.52	.50	.48	.47	.44	.43	.41	.39	.37	.36
	817	824	831	837	840	841	840	835	828	818	806	791	761	740	716	692	666	639	607	581	555	530	506	485
15	.53	.53	.54	.54	.55	.55	.55	.54	.54	.53	.52	.51	.50	.48	.47	.45	.43	.41	.39	.37	.35	.34	.32	.31
	747	754	761	767	770	771	770	764	757	747	734	718	688	667	643	618	592	566	534	508	482	458	435	413
30	.48	.48	.49	.49	.49	.49	.49	.49	.49	.48	.47	.46	.44	.43	.41	.39	.38	.36	.34	.32	.30	.28	.27	.25
	675	682	689	694	697	698	697	691	683	673	659	643	613	591	567	542	516	490	458	432	407	383	360	340
45	.42	.43	.43	.44	.44	.44	.44	.44	.43	.43	.42	.41	.38	.37	.35	.34	.32	.30	.28	.26	.24	.23	.21	.20
	600	607	615	620	623	623	621	615	607	596	582	566	535	513	489	464	438	412	380	354	330	306	284	264

JAN-APR 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB						MAR						APR				
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1700	.37	.38	.38	.38	.39	.39	.39	.38	.38	.37	.36	.35	.33	.31	.30	.28	.26	.24	.22	.20	.18	.17	.15	.14
	524	531	538	543	546	546	544	537	529	517	503	486	455	433	409	384	358	332	300	275	251	228	206	187
15	.32	.32	.33	.33	.33	.33	.33	.33	.32	.31	.30	.29	.27	.25	.24	.22	.20	.18	.16	.14	.13	.11	.09	.08
	446	453	460	465	467	467	464	457	448	437	422	405	373	351	327	302	276	250	219	194	170	148	127	109
30	.26	.26	.27	.27	.27	.27	.27	.27	.26	.25	.24	.23	.21	.19	.18	.16	.14	.12	.10	.09	.07	.05	.04	.02
	367	374	381	386	389	387	384	376	367	355	340	322	290	267	243	218	193	167	137	112	089	067	047	029
45	.20	.21	.21	.22	.22	.22	.21	.21	.20	.19	.18	.17	.15	.13	.12	.10	.08	.06	.04	.02	.01	.00	.00	.00
	288	295	301	305	307	306	303	294	284	272	256	239	206	183	159	134	109	083	053	029	007	000	000	000
1800	.15	.15	.16	.16	.16	.16	.16	.15	.14	.13	.12	.11	.09	.07	.05	.04	.02	.00	.00	.00	.00	.00	.00	.00
	208	214	221	224	226	224	220	211	201	188	172	154	121	098	074	049	024	000	000	000	000	000	000	000
15	.09	.10	.10	.10	.10	.10	.10	.09	.08	.07	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	128	134	140	143	144	142	138	128	118	104	088	070	036	013	000	000	000	000	000	000	000	000	000	000
30	.03	.04	.04	.04	.04	.04	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	048	054	060	062	063	060	055	045	034	020	004	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 20 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	MAY 5	MAY 10	MAY 15	MAY 20	MAY 25	MAY 30	JUN 5	JUN 10	JUN 15	JUN 20	JUN 25	JUN 30
	DATE											
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
30	.04	.03	.02	.01	.01	.00	.00	.00	.00	.00	.00	.00
	050	040	029	018	008	000	000	000	000	000	000	000
45	.10	.09	.08	.07	.06	.05	.05	.04	.03	.03	.02	.02
	129	117	106	095	083	073	060	051	043	036	031	028
0700	.15	.14	.14	.13	.12	.11	.10	.09	.09	.08	.08	.08
	206	194	182	170	158	146	134	124	116	109	104	101
15	.21	.20	.19	.18	.17	.16	.16	.15	.14	.14	.13	.13
	262	269	256	243	231	219	206	196	188	181	176	173
30	.26	.26	.25	.24	.23	.22	.21	.20	.20	.19	.19	.18
	356	342	329	315	302	290	277	267	258	251	246	243
45	.32	.31	.30	.29	.28	.27	.26	.25	.25	.24	.24	.24
	428	413	399	385	372	359	345	335	326	319	315	312
0800	.37	.36	.35	.34	.33	.32	.31	.30	.30	.29	.29	.29
	497	482	467	453	439	426	411	401	392	386	381	378
15	.42	.41	.40	.39	.38	.37	.36	.35	.34	.34	.34	.33
	564	548	533	518	503	490	475	465	456	449	445	443
30	.47	.46	.45	.43	.42	.41	.40	.40	.39	.39	.38	.38
	628	612	596	580	565	551	536	526	517	510	506	504
45	.51	.50	.49	.48	.47	.46	.45	.44	.43	.43	.43	.43
	689	672	655	639	624	610	594	584	575	568	564	563

MST	JUL 5	JUL 10	JUL 15	JUL 20	JUL 25	JUL 30	AUG 5	AUG 10	AUG 15	AUG 20	AUG 25	AUG 30
	DATE											
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	003
30	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.06
	000	000	000	000	000	000	000	004	021	040	061	084
45	.02	.02	.02	.03	.03	.04	.05	.06	.08	.09	.11	.12
	026	027	029	034	042	052	067	082	100	120	141	165
0700	.08	.08	.08	.08	.09	.10	.11	.12	.13	.15	.16	.18
	100	100	104	109	117	128	144	159	178	198	220	244
15	.13	.13	.13	.14	.14	.15	.16	.18	.19	.21	.22	.24
	172	173	177	183	191	202	219	235	254	275	298	322
30	.18	.18	.19	.19	.20	.21	.22	.23	.25	.26	.28	.30
	243	244	248	255	264	275	293	310	329	351	374	399
45	.24	.24	.24	.25	.25	.26	.27	.29	.30	.32	.33	.35
	311	313	318	325	335	347	365	382	402	424	448	473
0800	.29	.29	.29	.30	.30	.31	.33	.34	.35	.37	.39	.41
	378	381	386	393	403	416	435	452	473	496	520	545
15	.33	.34	.34	.35	.35	.36	.38	.39	.41	.42	.44	.46
	443	445	451	459	470	483	502	521	542	565	589	615
30	.38	.38	.39	.39	.40	.41	.43	.44	.46	.47	.49	.51
	504	508	513	522	533	547	567	585	607	630	655	681
45	.43	.43	.43	.44	.45	.46	.47	.49	.50	.52	.54	.55
	563	567	573	582	594	608	629	648	670	693	718	744

MAY-AUG 20 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900	.55	.54	.53	.52	.51	.50	.49	.48	.48	.47	.47	.47	.47	.47	.48	.48	.49	.50	.52	.53	.55	.56	.58	.60
	746	728	711	695	679	664	649	638	630	623	619	618	619	623	630	639	651	666	687	707	729	753	778	804
15	.59	.58	.57	.56	.55	.54	.53	.52	.51	.51	.51	.51	.51	.51	.52	.52	.53	.54	.56	.57	.59	.60	.62	.64
	799	781	763	746	730	716	700	690	681	675	671	670	671	676	683	693	705	721	742	762	785	808	834	860
30	.63	.62	.61	.59	.58	.57	.56	.56	.55	.55	.54	.54	.54	.55	.55	.56	.57	.58	.60	.61	.63	.64	.66	.68
	849	830	812	795	778	763	748	737	729	723	719	718	720	725	732	743	756	771	793	814	838	860	886	912
45	.66	.65	.64	.63	.62	.61	.60	.59	.58	.58	.58	.58	.58	.58	.59	.60	.60	.62	.63	.65	.66	.68	.70	.71
	894	875	856	839	822	807	791	781	772	766	763	763	765	770	778	789	802	818	840	861	884	908	934	960
1000	.70	.68	.67	.66	.65	.64	.63	.62	.61	.61	.61	.61	.61	.61	.62	.63	.64	.65	.66	.68	.69	.71	.73	.75
	935	916	896	878	862	847	831	820	812	806	803	803	806	811	820	831	845	861	883	904	927	952	977	*003
15	.72	.71	.70	.68	.67	.66	.65	.64	.64	.64	.63	.63	.64	.64	.65	.66	.67	.68	.69	.71	.72	.74	.76	.78
	972	952	932	914	897	882	866	855	847	842	839	839	842	848	857	869	883	899	922	943	966	990	*016	*042
30	.75	.73	.72	.71	.70	.69	.67	.67	.66	.66	.66	.66	.66	.67	.67	.68	.69	.70	.72	.73	.75	.77	.78	.80
	*004	983	963	945	927	912	897	886	878	873	871	871	875	881	890	902	916	933	956	978	*001	*025	*050	*076
45	.77	.75	.74	.73	.72	.70	.69	.69	.68	.68	.68	.68	.68	.69	.69	.70	.71	.72	.74	.75	.77	.79	.81	.82
	*030	*009	989	971	953	938	923	912	905	900	898	899	902	909	918	931	945	962	986	*007	*030	*054	*079	*105
1100	.78	.77	.75	.74	.73	.72	.71	.70	.70	.70	.70	.70	.70	.70	.71	.72	.73	.74	.76	.77	.79	.81	.82	.84
	*052	*031	*011	992	975	959	944	934	927	922	920	921	925	932	942	955	970	987	*010	*032	*055	*079	*103	*129
15	.79	.78	.77	.75	.74	.73	.72	.72	.71	.71	.71	.71	.71	.72	.73	.74	.75	.76	.77	.79	.80	.82	.84	.85
	*069	*048	*027	*008	991	976	961	951	944	939	938	939	944	951	961	974	989	*007	*030	*052	*074	*098	*123	*147
30	.80	.79	.78	.76	.75	.74	.73	.73	.72	.72	.72	.72	.72	.73	.74	.75	.76	.77	.79	.80	.82	.83	.85	.86
	*081	*059	*039	*020	*002	987	972	963	956	952	951	953	958	965	976	989	*004	*021	*045	*066	*089	*112	*136	*161
45	.81	.79	.78	.77	.76	.75	.74	.73	.73	.72	.72	.73	.73	.74	.74	.75	.76	.78	.79	.81	.82	.84	.85	.87
	*088	*065	*045	*026	*009	994	979	970	963	960	959	961	966	974	985	998	*014	*031	*055	*076	*098	*121	*145	*169

MAY-AUG 20 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.81	.80	.78	.77	.76	.75	.74	.73	.73	.73	.73	.73	.73	.74	.75	.76	.77	.78	.80	.81	.83	.84	.86	.87
	*089	*067	*046	*027	*010	995	981	972	966	963	962	965	970	978	989	*003	*018	*036	*059	*080	*102	*125	*149	*172
15	.81	.79	.78	.77	.75	.75	.74	.73	.73	.73	.73	.73	.73	.74	.75	.76	.77	.78	.80	.81	.83	.84	.86	.87
	*085	*063	*042	*023	*007	992	978	969	963	960	960	963	969	978	989	*002	*018	*036	*059	*080	*101	*124	*147	*170
30	.80	.79	.77	.76	.75	.74	.73	.72	.72	.72	.72	.72	.73	.73	.74	.75	.76	.78	.79	.81	.82	.84	.85	.86
	*076	*054	*033	*015	998	984	970	962	956	954	954	957	963	972	983	997	*013	*030	*053	*074	*095	*117	*140	*162
45	.79	.77	.76	.75	.74	.73	.72	.72	.71	.71	.71	.71	.72	.73	.73	.74	.76	.77	.78	.80	.81	.83	.84	.85
	*062	*040	*019	*001	984	970	957	949	944	942	942	946	952	961	973	987	*002	*020	*043	*063	*084	*105	*127	*149
1300	.78	.76	.75	.74	.72	.72	.71	.70	.70	.70	.70	.70	.71	.71	.72	.73	.74	.76	.77	.79	.80	.81	.83	.84
	*043	*021	*000	982	966	952	939	932	927	925	926	930	937	946	957	971	987	*004	*027	*047	*067	*088	*110	*130
15	.76	.74	.73	.72	.71	.70	.69	.69	.68	.68	.68	.69	.69	.70	.71	.72	.73	.74	.76	.77	.78	.80	.81	.82
	*018	997	976	958	943	929	917	910	905	904	905	909	916	926	937	951	967	984	*006	*026	*046	*066	*087	*107
30	.74	.72	.71	.70	.69	.68	.67	.67	.66	.66	.66	.67	.67	.68	.69	.70	.71	.72	.74	.75	.76	.78	.79	.80
	989	968	948	930	914	902	890	883	879	878	880	884	891	901	912	926	942	959	981	*000	*019	*039	*059	*079
45	.71	.70	.68	.67	.66	.65	.65	.64	.64	.64	.64	.65	.65	.66	.67	.68	.69	.70	.71	.73	.74	.75	.77	.78
	955	934	914	897	882	869	858	852	848	847	850	854	862	871	883	897	912	929	950	969	988	007	*026	*045
1400	.68	.67	.65	.64	.63	.63	.62	.62	.61	.61	.62	.62	.63	.63	.64	.65	.66	.67	.69	.70	.71	.73	.74	.75
	917	896	876	859	845	833	822	816	813	813	815	820	827	837	849	863	878	894	915	933	952	970	989	*007
15	.65	.64	.62	.61	.60	.59	.59	.58	.58	.58	.59	.59	.60	.60	.61	.62	.63	.64	.66	.67	.68	.69	.71	.72
	874	853	834	817	803	792	782	776	773	773	776	781	789	799	811	824	839	855	876	895	911	929	947	964
30	.61	.60	.59	.58	.57	.56	.55	.55	.55	.55	.55	.56	.56	.57	.58	.59	.60	.61	.63	.64	.65	.66	.67	.68
	826	806	787	771	758	747	737	732	730	730	733	739	747	756	768	782	796	812	832	849	866	883	900	917
45	.58	.56	.55	.54	.53	.52	.52	.52	.51	.52	.52	.52	.53	.54	.55	.55	.57	.58	.59	.60	.61	.62	.63	.64
	775	755	737	721	708	698	689	684	682	683	686	692	700	710	722	735	749	765	784	800	817	833	850	865

MAY-AUG 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																					
	MAY						JUN						JUL						AUG			
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500	.54	.52	.51	.50	.49	.48	.48	.48	.48	.48	.48	.49	.49	.50	.51	.52	.53	.54	.55	.56	.57	.58	.59	.60
	720	700	683	667	655	645	637	633	631	632	636	642	650	660	671	684	698	713	732	748	764	779	795	810
15	.49	.48	.47	.46	.45	.44	.44	.44	.44	.44	.44	.44	.45	.46	.47	.48	.49	.50	.51	.52	.53	.54	.55	.56
	661	642	625	610	598	589	581	577	577	578	582	588	596	606	617	630	644	658	676	692	707	722	736	750
30	.45	.43	.42	.41	.40	.40	.39	.39	.39	.39	.40	.40	.41	.41	.42	.43	.44	.45	.46	.47	.48	.49	.50	.51
	599	580	564	550	538	529	522	519	519	520	525	531	539	549	560	573	586	600	617	632	646	661	674	687
45	.40	.38	.37	.36	.36	.35	.35	.35	.35	.35	.35	.36	.36	.37	.38	.39	.40	.41	.42	.43	.44	.45	.45	.46
	533	515	499	486	475	467	461	458	458	460	464	471	479	489	500	512	525	538	555	569	583	596	609	621
1600	.35	.33	.32	.31	.31	.30	.30	.30	.30	.30	.30	.31	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	.40	.41
	465	448	432	420	409	402	396	394	394	397	401	408	416	426	436	448	461	474	490	503	516	529	541	552
15	.29	.28	.27	.26	.26	.25	.25	.25	.25	.25	.25	.26	.27	.27	.28	.29	.30	.31	.32	.33	.33	.34	.35	.36
	394	377	363	351	341	334	329	327	328	331	336	342	350	360	371	382	394	407	422	434	447	458	470	480
30	.24	.23	.22	.21	.20	.20	.20	.20	.20	.20	.20	.21	.21	.22	.23	.24	.25	.25	.26	.27	.28	.29	.30	.30
	321	305	291	280	271	265	260	259	260	263	268	275	283	292	302	314	325	337	352	363	375	386	396	406
45	.18	.17	.16	.16	.15	.15	.14	.14	.14	.15	.15	.16	.16	.17	.18	.18	.19	.20	.21	.22	.23	.23	.24	.25
	246	231	218	207	199	193	189	188	190	193	198	205	213	222	232	243	254	266	279	290	301	311	321	330
1700	.13	.12	.11	.10	.09	.09	.09	.09	.09	.09	.10	.10	.11	.11	.12	.13	.14	.15	.15	.16	.17	.18	.18	.19
	170	155	143	133	125	120	117	116	118	122	127	134	142	151	160	171	181	192	205	215	225	235	243	252
15	.07	.06	.05	.04	.04	.03	.03	.03	.03	.04	.04	.05	.05	.06	.07	.07	.08	.09	.10	.10	.11	.12	.12	.13
	092	078	066	057	050	046	043	043	045	049	054	061	069	078	087	097	107	117	129	139	148	157	165	172
30	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03	.04	.05	.05	.06	.06	.07
	014	000	000	000	000	000	000	000	000	000	000	000	000	004	013	022	032	041	053	061	070	078	085	092
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	005	011

MAY-AUG 20 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.04	.05	.05	.05	.05	.05	.05	.04	.03	.02	.01
		000	000	000	000	000	000	000	000	000	001	019	035	051	061	068	073	074	073	070	064	055	045	033	019
45		.00	.00	.00	.00	.00	.00	.01	.03	.05	.06	.07	.09	.10	.10	.11	.11	.11	.11	.11	.10	.10	.09	.08	.07
		000	000	000	000	000	000	019	043	065	085	103	118	133	143	150	154	155	154	150	143	135	124	112	098
0600		.00	.00	.00	.02	.04	.06	.08	.09	.11	.12	.13	.15	.16	.16	.17	.17	.17	.17	.16	.16	.15	.14	.14	.13
		000	000	000	026	053	078	103	127	149	169	186	201	216	225	232	235	236	234	230	223	215	204	192	178
15		.02	.04	.06	.08	.10	.12	.14	.15	.17	.18	.19	.20	.21	.22	.22	.23	.23	.22	.22	.22	.21	.20	.19	.18
		032	057	083	110	136	162	187	210	232	252	269	284	298	307	313	316	317	315	310	303	295	284	272	258
30		.08	.10	.12	.14	.16	.18	.20	.21	.23	.24	.25	.26	.27	.28	.28	.28	.28	.28	.28	.27	.27	.26	.25	.24
		114	140	166	193	219	245	270	293	315	334	352	366	380	388	394	397	397	394	390	383	374	363	351	338
45		.15	.16	.18	.20	.22	.24	.26	.27	.29	.30	.31	.32	.33	.34	.34	.34	.34	.34	.33	.33	.32	.31	.30	.30
		195	221	248	275	301	327	352	375	397	416	433	447	460	468	473	476	476	473	468	461	452	442	430	417
0700		.20	.22	.24	.26	.28	.30	.32	.33	.35	.36	.37	.38	.39	.39	.39	.40	.39	.39	.39	.38	.38	.37	.36	.35
		275	301	328	355	382	408	433	456	477	496	512	526	539	547	552	554	553	551	546	539	530	520	508	495
15		.26	.28	.30	.32	.34	.36	.37	.39	.40	.42	.43	.43	.44	.45	.45	.45	.45	.45	.44	.44	.43	.42	.41	.40
		354	380	408	435	461	487	512	535	556	574	590	604	616	624	628	630	630	627	622	615	606	596	584	572
30		.32	.34	.36	.38	.40	.41	.43	.45	.46	.47	.48	.49	.50	.50	.50	.50	.50	.50	.49	.49	.48	.47	.47	.46
		430	457	485	512	539	565	589	612	632	651	666	679	691	698	703	704	704	701	696	689	680	670	659	647
45		.38	.39	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.55	.55	.55	.55	.55	.55	.54	.54	.53	.53	.52	.51
		505	532	560	587	614	639	664	686	706	724	740	752	764	771	775	776	775	772	767	760	752	742	732	720

SEP-DEC 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0800	.43	.45	.47	.49	.50	.52	.54	.55	.56	.58	.58	.59	.60	.60	.60	.60	.60	.60	.59	.59	.58	.57	.57	.56
	577	605	632	660	686	712	736	758	778	795	810	823	834	841	844	846	845	842	837	830	822	812	802	791
15	.48	.50	.52	.54	.55	.57	.59	.60	.61	.62	.63	.64	.65	.65	.65	.65	.65	.65	.64	.64	.63	.62	.62	.61
	647	674	702	729	756	781	805	826	846	863	878	890	901	907	911	912	911	908	903	897	889	880	870	860
30	.53	.55	.57	.59	.60	.62	.64	.65	.66	.67	.68	.69	.69	.69	.70	.70	.69	.69	.69	.68	.67	.67	.66	.65
	714	741	769	796	822	847	870	892	911	928	942	954	965	971	974	975	974	971	966	960	953	944	935	925
45	.58	.60	.61	.63	.65	.67	.68	.69	.71	.72	.72	.73	.74	.74	.74	.74	.74	.73	.73	.72	.72	.71	.70	.70
	777	804	832	859	885	909	932	953	972	989	*003	*014	*025	*033	*034	*035	*034	*031	*026	*021	*013	*005	997	987
0900	.62	.64	.66	.68	.69	.71	.72	.74	.75	.76	.76	.77	.78	.78	.78	.78	.78	.77	.77	.76	.76	.75	.75	.74
	837	864	891	918	944	968	991	*011	*030	*046	*060	*071	*081	*086	*090	*091	*090	*087	*083	*077	*071	*063	*055	*046
15	.66	.68	.70	.72	.73	.75	.76	.78	.79	.80	.80	.81	.81	.82	.82	.81	.81	.81	.81	.80	.80	.79	.78	.78
	893	920	947	973	998	*022	*045	*065	*083	*099	*112	*123	*133	*138	*142	*143	*142	*139	*135	*130	*124	*117	*110	*102
30	.70	.72	.74	.75	.77	.79	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.85	.84	.84	.84	.83	.83	.82	.81
	944	971	998	*024	*049	*073	*095	*115	*132	*148	*161	*171	*181	*186	*189	*190	*190	*188	*184	*179	*174	*167	*160	*153
45	.74	.75	.77	.79	.80	.82	.83	.84	.85	.86	.87	.87	.88	.88	.88	.88	.88	.87	.87	.87	.87	.86	.85	.85
	*992	*019	*045	*071	*095	*119	*140	*159	*177	*192	*204	*215	*224	*229	*232	*234	*233	*231	*228	*224	*219	*213	*207	*200
1000	.77	.79	.80	.82	.83	.85	.86	.87	.88	.89	.90	.90	.91	.91	.91	.91	.91	.90	.90	.90	.89	.89	.88	.88
	*035	*061	*088	*113	*137	*160	*181	*200	*216	*231	*243	*253	*263	*268	*271	*272	*272	*271	*268	*264	*260	*255	*249	*243
15	.80	.81	.83	.85	.86	.88	.89	.90	.91	.92	.92	.93	.93	.93	.93	.93	.93	.93	.92	.92	.92	.91	.91	.91
	*073	*099	*125	*150	*174	*196	*216	*235	*251	*265	*278	*287	*296	*302	*305	*306	*306	*305	*303	*300	*296	*291	*287	*282
30	.82	.84	.85	.87	.88	.90	.91	.92	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95	.95	.94	.94	.94	.93	.93
	*107	*133	*158	*182	*205	*227	*247	*265	*281	*295	*307	*316	*325	*330	*334	*335	*336	*335	*333	*331	*327	*324	*320	*315
45	.84	.86	.87	.89	.90	.92	.93	.94	.95	.95	.96	.96	.97	.97	.97	.97	.97	.97	.96	.96	.96	.96	.95	.95
	*135	*161	*185	*209	*232	*253	*272	*290	*305	*319	*330	*340	*349	*354	*357	*359	*360	*360	*359	*357	*354	*351	*348	*344

SEP-DEC 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.86	.88	.89	.91	.92	.93	.94	.95	.96	.97	.97	.98	.98	.98	.98	.98	.98	.98	.98	.98	.97	.97	.97	.97
	*159	*184	*208	*231	*253	*274	*292	*310	*325	*338	*349	*358	*367	*372	*376	*378	*379	*380	*379	*378	*376	*374	*371	*368
15	.87	.89	.90	.92	.93	.94	.95	.96	.97	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99	.99	.99	.98	.98	.98
	*177	*201	*225	*248	*269	*289	*307	*324	*338	*351	*362	*371	*380	*385	*389	*392	*394	*394	*394	*393	*392	*391	*389	*387
30	.88	.90	.91	.93	.94	.95	.96	.97	.98	.98	.99	.99	***	***	***	***	***	***	***	.99	.99	.99	.99	.99
	*190	*214	*237	*259	*280	*299	*317	*333	*347	*359	*370	*379	*388	*393	*397	*400	*402	*404	*404	*404	*404	*403	*402	*401
45	.89	.90	.92	.93	.94	.95	.96	.97	.98	.99	.99	.99	***	***	***	***	***	***	***	***	***	***	***	***
	*198	*221	*243	*264	*285	*303	*320	*336	*350	*362	*372	*381	*390	*396	*400	*403	*406	*408	*409	*410	*410	*410	*410	*410
1200	.89	.90	.92	.93	.94	.95	.96	.97	.98	.98	.99	.99	.99	***	***	***	***	***	***	***	***	***	***	***
	*200	*222	*244	*265	*284	*302	*319	*334	*347	*359	*369	*378	*387	*393	*397	*401	*404	*407	*408	*410	*411	*412	*413	*413
15	.89	.90	.91	.93	.94	.95	.96	.96	.97	.98	.98	.99	.99	.99	.99	.99	.99	.99	***	***	***	***	***	***
	*197	*218	*239	*259	*278	*296	*312	*326	*339	*351	*361	*369	*378	*384	*389	*394	*397	*400	*403	*405	*407	*409	*410	*412
30	.88	.89	.91	.92	.93	.94	.95	.96	.96	.97	.97	.98	.98	.98	.98	.98	.99	.99	.99	.99	.99	.99	.99	.99
	*188	*209	*229	*249	*267	*284	*299	*313	*326	*337	*347	*355	*364	*371	*376	*381	*385	*388	*392	*395	*397	*400	*402	*405
45	.87	.88	.90	.91	.92	.93	.93	.94	.95	.95	.96	.96	.97	.97	.97	.97	.97	.97	.98	.98	.98	.98	.98	.98
	*174	*195	*214	*233	*250	*266	*281	*294	*307	*318	*327	*336	*345	*352	*357	*363	*367	*372	*376	*379	*383	*386	*389	*392
1300	.86	.87	.88	.89	.90	.91	.92	.92	.93	.94	.94	.94	.95	.95	.95	.95	.96	.96	.96	.96	.96	.97	.97	.97
	*155	*175	*193	*211	*228	*243	*258	*271	*282	*293	*303	*311	*321	*327	*334	*339	*345	*350	*354	*359	*363	*367	*371	*375
15	.84	.85	.86	.87	.88	.89	.90	.90	.91	.91	.92	.92	.93	.93	.93	.93	.94	.94	.94	.94	.95	.95	.95	.96
	*131	*150	*168	*185	*201	*215	*229	*242	*253	*263	*273	*282	*291	*298	*305	*311	*317	*323	*328	*333	*338	*343	*348	*353
30	.82	.83	.84	.85	.86	.87	.87	.88	.88	.89	.89	.90	.90	.90	.91	.91	.91	.92	.92	.92	.93	.93	.93	.94
	*101	*119	*137	*153	*168	*182	*195	*207	*218	*229	*238	*247	*257	*264	*271	*278	*284	*291	*297	*303	*309	*315	*320	*325
45	.79	.80	.81	.82	.83	.84	.84	.85	.86	.86	.86	.87	.87	.88	.88	.88	.89	.89	.89	.90	.90	.91	.91	.91
	*067	*084	*101	*116	*131	*144	*157	*168	*179	*189	*198	*207	*217	*225	*233	*240	*247	*254	*261	*268	*274	*281	*287	*293

SEP-DEC 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE SEP 5	10	15	20	25	30	OCT 5	10	15	20	25	30	NOV 5	10	15	20	25	30	DEC 5	10	15	20	25	30
1400	.76	.77	.78	.79	.80	.81	.81	.82	.82	.83	.83	.84	.84	.85	.85	.85	.86	.86	.87	.87	.87	.88	.88	.89
	*028	*044	*060	*075	*088	*101	*113	*124	*135	*145	*154	*163	*173	*181	*189	*197	*205	*213	*220	*228	*235	*243	*250	*256
15	.73	.74	.75	.76	.76	.77	.78	.78	.79	.79	.80	.80	.81	.81	.82	.82	.82	.83	.83	.84	.84	.85	.85	.86
	984	999	*014	*028	*041	*054	*065	*076	*086	*096	*105	*114	*123	*133	*142	*150	*159	*167	*175	*184	*192	*200	*207	*214
30	.69	.70	.71	.72	.73	.73	.74	.74	.75	.75	.76	.76	.77	.77	.78	.78	.79	.79	.80	.80	.81	.82	.82	.83
	935	950	964	978	990	*002	*013	*023	*033	*043	*052	*061	*072	*081	*090	*099	*108	*117	*126	*135	*144	*153	*161	*169
45	.66	.66	.67	.68	.69	.69	.70	.70	.71	.71	.72	.72	.73	.73	.74	.74	.75	.76	.76	.77	.77	.78	.78	.79
	883	897	910	923	934	945	956	966	976	985	995	*004	*015	*024	*034	*044	*053	*063	*073	*083	*092	*101	*110	*118
1500	.61	.62	.63	.64	.64	.65	.65	.66	.66	.67	.67	.68	.68	.69	.70	.70	.71	.71	.72	.73	.73	.74	.75	.75
	826	840	852	864	875	885	895	905	915	924	933	943	954	964	974	985	995	*005	*016	*025	*035	*046	*056	*064
15	.57	.58	.58	.59	.60	.60	.61	.61	.62	.62	.63	.63	.64	.64	.65	.66	.66	.67	.68	.68	.69	.70	.71	.71
	766	778	790	801	811	821	831	840	850	859	869	878	890	900	911	922	933	944	955	965	977	988	997	*007
30	.52	.53	.53	.54	.55	.55	.56	.56	.57	.57	.58	.58	.59	.60	.60	.61	.62	.62	.63	.64	.65	.65	.66	.67
	702	714	725	735	745	754	763	772	782	791	800	810	823	833	845	856	868	879	891	903	914	925	936	945
45	.47	.48	.48	.49	.50	.50	.51	.51	.52	.52	.53	.53	.54	.55	.55	.56	.57	.58	.58	.59	.60	.61	.62	.62
	635	646	656	666	675	684	693	701	710	720	729	740	752	764	775	787	799	812	824	837	848	860	871	881
1600	.42	.43	.43	.44	.44	.45	.45	.46	.46	.47	.47	.48	.49	.49	.50	.51	.52	.53	.54	.54	.55	.56	.57	.57
	565	575	584	593	602	610	619	628	636	646	656	666	679	691	703	716	728	741	754	767	780	792	803	813
15	.37	.37	.38	.38	.39	.39	.40	.40	.41	.41	.42	.42	.43	.44	.45	.46	.47	.48	.48	.49	.50	.51	.52	.53
	492	501	510	518	527	535	543	551	560	569	579	590	601	616	628	642	655	669	682	695	709	721	733	743
30	.31	.32	.32	.33	.33	.33	.34	.34	.35	.36	.36	.37	.38	.39	.39	.40	.41	.42	.43	.44	.45	.46	.47	.47
	417	425	434	441	449	457	465	473	482	491	501	512	526	539	552	566	580	594	608	622	635	648	660	671
45	.25	.26	.26	.27	.27	.28	.28	.29	.29	.30	.30	.31	.32	.33	.34	.35	.36	.37	.38	.39	.40	.41	.41	.42
	340	348	355	362	369	377	384	393	401	411	421	432	447	460	474	488	502	517	532	546	560	573	585	596

SEP-DEC 20 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.19	.20	.20	.21	.21	.22	.22	.23	.23	.24	.25	.25	.26	.27	.28	.29	.30	.31	.32	.33	.34	.35	.36	.37
	261	268	275	282	288	295	303	311	320	329	340	351	365	380	394	409	424	439	454	469	483	496	509	520
15	.13	.14	.14	.15	.15	.16	.16	.17	.17	.18	.19	.19	.20	.21	.22	.23	.25	.26	.27	.28	.29	.30	.30	.31
	181	187	193	200	206	213	220	228	237	247	257	269	285	299	313	329	344	360	375	390	405	419	431	442
30	.07	.08	.08	.09	.09	.10	.10	.11	.11	.12	.13	.13	.15	.16	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26
	099	105	111	117	123	129	136	144	153	163	174	186	202	217	232	248	264	280	296	311	326	340	352	363
45	.01	.02	.02	.03	.03	.03	.04	.04	.05	.06	.07	.07	.09	.10	.11	.12	.13	.14	.15	.16	.17	.18	.19	.20
	017	023	028	033	039	045	052	060	069	079	091	103	120	135	150	166	183	199	216	231	246	260	273	284
1800	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.04	.05	.06	.07	.08	.10	.11	.12	.13	.14	.14
	000	000	000	000	000	000	000	000	000	000	007	020	037	052	068	085	102	119	135	151	166	180	193	204
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04	.05	.06	.07	.08	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	021	038	055	071	087	101	113	124
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	007	021	034	044
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 20 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	022	009	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
0500	.06	.05	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	084	071	052	031	007	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.10	.10	.08	.07	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	148	134	115	094	071	047	021	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.15	.14	.13	.11	.10	.08	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	212	199	180	159	136	112	087	055	028	002	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.20	.19	.17	.16	.14	.13	.11	.09	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	277	264	245	225	202	178	153	122	096	069	043	016	000	000	000	000	000	000	000	000	000	000	000	000
0600	.24	.23	.22	.21	.19	.17	.16	.14	.12	.10	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	342	329	311	290	268	245	220	190	164	137	111	085	044	019	000	000	000	000	000	000	000	000	000	000
15	.29	.28	.27	.25	.24	.22	.20	.18	.17	.15	.13	.11	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00
	407	394	376	356	335	312	288	257	232	206	180	154	114	089	064	041	017	000	000	000	000	000	000	000
30	.33	.33	.31	.30	.28	.27	.25	.23	.21	.20	.18	.16	.13	.11	.10	.08	.06	.05	.03	.01	.00	.00	.00	.00
	472	460	442	422	401	379	355	325	300	274	249	223	183	158	134	110	086	063	035	013	000	000	000	000
45	.38	.37	.36	.35	.33	.32	.30	.28	.26	.24	.23	.21	.18	.16	.15	.13	.11	.10	.08	.06	.04	.03	.01	.00
	537	525	507	488	467	445	422	393	368	343	317	292	252	227	203	178	154	131	103	080	057	034	012	000

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0700	.42	.42	.40	.39	.38	.36	.35	.33	.31	.29	.28	.26	.23	.21	.20	.18	.16	.14	.12	.11	.09	.07	.06	.04
	601	589	572	553	533	511	488	459	435	410	385	360	320	295	271	246	222	198	169	145	122	099	077	054
15	.47	.46	.45	.44	.42	.41	.39	.37	.36	.34	.32	.31	.28	.26	.24	.23	.21	.19	.17	.15	.14	.12	.10	.09
	663	652	635	617	597	576	553	525	501	477	452	427	387	363	338	313	289	264	235	211	187	163	140	117
30	.51	.50	.49	.48	.47	.45	.44	.42	.40	.39	.37	.35	.33	.31	.29	.27	.26	.24	.22	.20	.18	.17	.15	.13
	725	713	697	680	660	639	618	590	567	542	518	493	455	429	404	379	354	329	299	274	250	225	201	178
45	.55	.55	.54	.52	.51	.50	.48	.46	.45	.43	.42	.40	.37	.36	.34	.32	.30	.29	.26	.25	.23	.21	.19	.18
	785	774	758	741	722	702	680	653	630	606	582	558	518	493	468	443	417	392	362	336	311	286	261	237
0800	.60	.59	.58	.57	.55	.54	.53	.51	.49	.48	.46	.44	.42	.40	.38	.37	.35	.33	.31	.29	.27	.25	.24	.22
	843	832	817	800	782	762	741	715	692	669	645	620	581	556	530	505	479	453	422	396	370	345	319	295
15	.64	.63	.62	.61	.59	.58	.57	.55	.54	.52	.50	.49	.46	.44	.43	.41	.39	.37	.35	.33	.31	.30	.28	.26
	899	888	874	858	840	821	800	775	752	729	705	681	642	616	591	565	539	512	481	454	428	401	375	350
30	.67	.67	.66	.65	.63	.62	.61	.59	.58	.56	.55	.53	.50	.49	.47	.45	.43	.42	.39	.37	.35	.34	.32	.30
	952	942	928	913	896	877	857	832	810	787	764	740	700	675	649	622	596	569	537	509	482	455	429	402
45	.71	.70	.69	.68	.67	.66	.65	.63	.62	.60	.59	.57	.54	.53	.51	.49	.47	.45	.43	.41	.39	.37	.35	.34
	*003	994	981	966	949	931	912	887	865	843	820	796	756	730	704	677	650	623	590	562	534	507	479	453
0900	.74	.74	.73	.72	.71	.70	.68	.67	.65	.64	.62	.61	.58	.56	.55	.53	.51	.49	.47	.45	.43	.41	.39	.37
	*052	*043	*030	*015	999	982	963	939	918	896	873	849	809	783	757	730	702	674	640	612	583	555	527	500
15	.78	.77	.76	.75	.74	.73	.72	.70	.69	.67	.66	.64	.62	.60	.58	.56	.55	.53	.50	.48	.46	.44	.42	.40
	*097	*089	*076	*063	*047	*030	*012	988	968	946	923	899	859	833	806	779	751	722	688	659	631	600	572	544
30	.81	.80	.79	.78	.77	.76	.75	.74	.72	.71	.69	.68	.65	.63	.62	.60	.58	.56	.54	.51	.49	.47	.45	.43
	*139	*131	*120	*106	*092	*075	*058	*035	*014	992	969	946	905	879	852	824	796	767	732	702	672	643	613	585
45	.83	.83	.82	.81	.80	.79	.78	.77	.75	.74	.72	.71	.68	.66	.65	.63	.61	.59	.56	.54	.52	.50	.48	.46
	*178	*171	*160	*147	*133	*117	*100	*077	*057	*036	*013	989	949	922	895	867	838	808	772	742	711	681	651	622

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1000	.86	.85	.85	.84	.83	.82	.81	.79	.78	.77	.75	.74	.71	.69	.68	.66	.64	.62	.59	.57	.55	.53	.51	.49
	*213	*206	*196	*184	*170	*155	*138	*116	*097	*075	*053	*029	98[illegible]	962	934	905	876	846	809	778	747	716	686	656
15	.88	.88	.87	.86	.85	.84	.83	.82	.81	.79	.78	.76	.74	.72	.70	.68	.66	.64	.62	.59	.57	.55	.53	.51
	*245	*238	*229	*217	*204	*190	*174	*152	*132	*111	*089	*065	*024	997	969	940	910	879	842	810	779	747	716	686
30	.90	.90	.89	.88	.87	.86	.85	.84	.83	.82	.80	.79	.76	.74	.72	.70	.68	.66	.64	.62	.59	.57	.55	.53
	*273	*267	*258	*247	*235	*221	*205	*184	*164	*143	*121	*097	*056	*029	*000	971	940	909	871	839	806	774	743	713
45	.92	.91	.91	.90	.89	.88	.87	.86	.85	.84	.82	.81	.78	.76	.74	.72	.70	.68	.66	.63	.61	.59	.57	.55
	*297	*291	*283	*273	*261	*247	*232	*211	*192	*172	*149	*125	*084	*056	*027	997	966	934	896	863	830	798	766	735
1100	.93	.93	.92	.92	.91	.90	.89	.88	.87	.85	.84	.82	.80	.78	.76	.74	.72	.70	.67	.65	.63	.60	.58	.56
	*317	*312	*304	*294	*283	*270	*255	*235	*216	*196	*173	*149	*108	*080	*050	*020	988	956	916	883	850	817	784	753
15	.94	.94	.93	.93	.92	.91	.90	.89	.88	.87	.85	.84	.81	.79	.77	.75	.73	.71	.68	.66	.64	.61	.59	.57
	*332	*328	*321	*312	*301	*289	*274	*254	*236	*215	*193	*169	*127	*098	*069	*038	*006	973	933	899	865	832	799	767
30	.95	.95	.94	.94	.93	.92	.91	.90	.89	.88	.86	.85	.82	.80	.78	.76	.74	.72	.69	.67	.64	.62	.60	.58
	*344	*340	*334	*325	*315	*303	*269	*269	*251	*231	*208	*184	*142	*113	*083	*051	*019	985	945	910	876	842	809	777
45	.95	.95	.95	.94	.94	.93	.92	.91	.90	.89	.87	.86	.83	.81	.79	.77	.75	.72	.70	.67	.65	.63	.60	.58
	*351	*348	*342	*334	*325	*313	*299	*280	*262	*242	*219	*195	*152	*123	*092	*061	*028	994	952	917	883	848	815	783
1200	.96	.96	.95	.95	.94	.93	.93	.91	.90	.89	.88	.86	.83	.81	.79	.77	.75	.73	.70	.67	.65	.63	.60	.58
	*354	*352	*346	*339	*330	*319	*305	*286	*268	*248	*226	*201	*158	*129	*098	*065	*032	997	955	920	885	850	816	784
15	.96	.95	.95	.95	.94	.94	.93	.92	.90	.89	.88	.86	.83	.81	.79	.77	.75	.73	.70	.67	.65	.63	.60	.58
	*353	*351	*346	*340	*331	*320	*307	*288	*270	*250	*228	*203	*159	*130	*098	*065	*031	996	954	919	883	848	814	781
30	.95	.95	.95	.94	.94	.93	.93	.91	.90	.89	.88	.86	.83	.81	.79	.77	.75	.72	.69	.67	.64	.62	.60	.57
	*348	*346	*342	*336	*327	*317	*304	*286	*268	*248	*225	*200	*156	*126	*094	*061	*027	991	948	912	876	841	806	774
45	.95	.94	.94	.94	.93	.93	.92	.91	.90	.88	.87	.85	.83	.81	.78	.76	.74	.72	.69	.66	.64	.61	.59	.57
	*338	*337	*333	*327	*320	*309	*297	*279	*261	*241	*218	*193	*148	*118	*086	*052	*017	981	938	901	865	830	795	762

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1300	.94	.94	.93	.93	.93	.92	.91	.90	.89	.88	.86	.85	.82	.80	.78	.75	.73	.70	.68	.65	.63	.60	.58	.55
	*324	*323	*320	*315	*308	*298	*285	*267	*250	*229	*207	*181	*136	*105	*073	*039	*003	967	923	885	850	814	780	746
15	.92	.92	.92	.92	.91	.91	.90	.89	.88	.87	.85	.83	.80	.78	.76	.74	.72	.69	.66	.64	.61	.59	.56	.54
	*306	*306	*303	*298	*291	*282	*270	*252	*234	*214	*191	*165	*120	*088	*055	*021	985	949	904	867	830	794	760	727
30	.91	.91	.91	.90	.90	.89	.89	.88	.86	.85	.84	.82	.79	.77	.75	.72	.70	.67	.64	.62	.59	.57	.54	.52
	*284	*284	*282	*278	*271	*261	*250	*232	*214	*193	*170	*145	*099	*067	*034	999	963	926	881	844	807	771	736	703
45	.89	.89	.89	.89	.88	.88	.87	.86	.85	.83	.82	.80	.77	.75	.73	.70	.68	.66	.62	.60	.57	.55	.52	.50
	*258	*258	*257	*253	*246	*237	*225	*208	*190	*169	*146	*120	*073	*041	*008	972	936	899	854	816	779	743	708	675
1400	.87	.87	.87	.87	.86	.86	.85	.84	.83	.81	.80	.78	.75	.73	.71	.68	.66	.63	.60	.58	.55	.52	.50	.48
	*228	*229	*227	*224	*218	*209	*197	*179	*161	*141	*117	*091	*044	*012	978	942	905	868	822	784	747	711	676	643
15	.84	.84	.84	.84	.84	.83	.83	.82	.80	.79	.77	.76	.73	.70	.68	.66	.63	.61	.58	.55	.52	.50	.47	.45
	*194	*195	*195	*191	*185	*176	*165	*147	*129	*108	*084	*058	*010	978	943	908	870	833	787	749	712	676	641	608
30	.82	.82	.82	.82	.81	.81	.80	.79	.78	.76	.75	.73	.70	.68	.65	.63	.60	.58	.55	.52	.49	.47	.45	.42
	*157	*158	*158	*155	*149	*140	*129	*111	*093	*072	*048	*021	973	940	905	869	832	794	748	710	673	636	602	569
45	.79	.79	.79	.79	.79	.78	.77	.76	.75	.74	.72	.70	.67	.65	.62	.60	.57	.55	.52	.49	.46	.44	.41	.39
	*117	*118	*118	*115	*109	*101	*089	*071	*053	*032	*008	980	932	899	864	827	790	751	705	667	630	594	559	527
1500	.76	.76	.76	.76	.75	.75	.74	.73	.72	.70	.69	.67	.64	.62	.59	.57	.54	.51	.48	.46	.43	.40	.38	.36
	*073	*074	*074	*072	*066	*058	*046	*028	*010	988	964	936	887	854	818	782	744	705	659	621	584	548	514	482
15	.72	.73	.73	.73	.72	.72	.71	.70	.69	.67	.65	.64	.60	.58	.56	.53	.51	.48	.45	.42	.39	.37	.34	.32
	*026	*028	*028	*025	*020	*011	*000	981	963	941	916	889	839	805	770	733	695	656	610	572	535	499	465	433
30	.69	.69	.69	.69	.69	.68	.67	.66	.65	.64	.62	.60	.57	.54	.52	.49	.47	.44	.41	.38	.36	.33	.31	.28
	976	978	978	976	970	962	950	932	913	891	866	838	788	754	718	681	643	604	558	520	483	447	414	382
45	.65	.65	.65	.65	.65	.64	.64	.62	.61	.60	.58	.56	.53	.50	.48	.45	.43	.40	.37	.34	.32	.29	.27	.24
	923	926	926	924	918	910	898	879	860	838	812	784	734	700	663	626	588	549	503	465	428	393	360	328

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1600	.61	.62	.62	.61	.61	.61	.60	.59	.57	.56	.54	.52	.49	.46	.44	.41	.39	.36	.33	.30	.27	.25	.22	.20
	868	871	871	869	864	855	843	824	805	782	756	728	677	642	606	569	530	492	445	408	371	336	303	272
15	.57	.58	.58	.57	.57	.57	.56	.54	.53	.52	.50	.48	.44	.42	.40	.37	.34	.31	.28	.25	.23	.20	.18	.16
	811	814	814	812	806	798	785	766	747	724	698	669	618	583	546	509	470	432	386	348	312	277	244	214
30	.53	.53	.53	.53	.53	.52	.51	.50	.49	.47	.46	.44	.40	.38	.35	.32	.30	.27	.24	.21	.18	.16	.14	.11
	752	755	755	753	747	738	726	706	686	663	637	608	556	521	484	447	408	370	324	285	250	216	184	154
45	.49	.49	.49	.49	.49	.48	.47	.46	.44	.43	.41	.39	.35	.33	.30	.28	.25	.22	.19	.16	.14	.11	.09	.07
	691	694	695	692	686	677	664	644	624	601	574	545	493	457	421	383	344	306	260	223	188	154	122	093
1700	.44	.45	.45	.45	.44	.44	.43	.41	.40	.38	.36	.34	.31	.28	.26	.23	.20	.18	.14	.12	.09	.07	.04	.02
	629	632	632	630	624	614	601	581	560	536	510	480	427	392	355	317	279	241	195	158	123	090	058	030
15	.40	.40	.40	.40	.40	.39	.38	.37	.35	.34	.32	.30	.26	.23	.21	.18	.15	.13	.09	.07	.04	.02	.00	.00
	566	568	569	566	560	550	536	516	495	471	444	414	361	325	288	250	212	174	129	093	059	025	000	000
30	.35	.36	.36	.35	.35	.34	.33	.32	.31	.29	.27	.25	.21	.19	.16	.13	.11	.08	.05	.02	.00	.00	.00	.00
	502	504	504	501	495	485	471	450	428	404	376	346	293	257	220	183	144	106	062	026	000	000	000	000
45	.31	.31	.31	.31	.30	.30	.29	.27	.26	.24	.22	.20	.16	.14	.11	.08	.06	.03	.00	.00	.00	.00	.00	.00
	437	439	439	436	429	418	404	383	361	336	309	278	224	189	152	114	076	038	000	000	000	000	000	000
1800	.26	.26	.26	.26	.26	.25	.24	.22	.21	.19	.17	.15	.11	.09	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00
	371	374	374	370	363	352	337	315	293	268	240	209	155	120	083	045	007	000	000	000	000	000	000	000
15	.22	.22	.22	.22	.21	.20	.19	.18	.16	.14	.12	.10	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	306	308	308	304	296	285	270	248	225	200	171	140	086	050	013	000	000	000	000	000	000	000	000	000
30	.17	.17	.17	.17	.16	.15	.14	.13	.11	.09	.07	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	241	243	242	238	230	218	203	180	157	131	102	071	017	000	000	000	000	000	000	000	000	000	000	000
45	.13	.13	.13	.12	.12	.11	.10	.08	.06	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	177	178	177	172	164	152	136	112	089	063	034	002	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1900	.08	.08	.08	.08	.07	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	113	114	113	107	099	086	070	046	022	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.04	.04	.04	.03	.02	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	050	051	049	044	034	021	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 40 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	055
0700	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.09
	033	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	054	086	120
15	.07	.06	.04	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.14
	095	073	053	034	016	000	000	000	000	000	000	000	000	000	000	000	000	010	035	059	087	117	149	183
30	.12	.10	.08	.07	.06	.04	.03	.02	.02	.01	.01	.01	.01	.01	.02	.03	.04	.05	.07	.09	.11	.13	.16	.18
	155	133	112	092	074	058	041	029	020	013	009	008	010	016	024	036	051	069	095	120	148	178	211	246
45	.16	.14	.13	.11	.10	.09	.07	.06	.06	.05	.05	.05	.05	.05	.06	.07	.08	.10	.12	.14	.16	.18	.20	.23
	214	191	169	149	131	114	097	085	075	069	065	064	067	072	081	093	109	127	154	179	208	238	271	306
0800	.20	.18	.17	.15	.14	.13	.11	.10	.10	.09	.09	.09	.09	.10	.10	.11	.12	.14	.16	.18	.20	.22	.25	.27
	270	247	225	204	185	168	151	139	129	123	119	118	121	127	136	149	165	184	211	237	265	297	330	365
15	.24	.22	.21	.19	.18	.17	.15	.14	.14	.13	.13	.13	.13	.14	.14	.15	.17	.18	.20	.22	.24	.26	.29	.31
	325	301	279	257	238	221	203	191	181	175	171	171	174	180	189	202	219	238	266	292	321	353	386	422
30	.28	.26	.25	.23	.22	.20	.19	.18	.17	.17	.17	.17	.17	.17	.18	.19	.20	.22	.24	.26	.28	.30	.33	.35
	377	353	330	308	288	271	253	240	231	224	221	221	224	230	240	254	271	291	319	345	375	406	440	476
45	.32	.30	.28	.27	.25	.24	.23	.22	.21	.21	.20	.20	.21	.21	.22	.23	.24	.26	.28	.30	.32	.34	.37	.39
	427	402	378	356	336	318	300	268	278	272	268	268	272	279	289	303	320	340	369	393	426	458	492	527

MAY-AUG 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900		.35	.33	.32	.30	.29	.27	.26	.25	.24	.24	.24	.24	.24	.25	.25	.26	.28	.29	.31	.33	.36	.38	.40	.43
		473	448	424	402	381	363	345	332	323	316	313	314	317	325	335	349	367	388	417	441	474	506	540	576
15		.38	.37	.35	.33	.32	.30	.29	.28	.28	.27	.27	.27	.27	.28	.29	.30	.31	.33	.35	.37	.39	.41	.44	.46
		517	491	467	444	423	405	386	374	364	358	355	356	360	368	379	393	411	432	461	489	519	551	586	622
30		.41	.40	.38	.36	.35	.33	.32	.31	.30	.30	.30	.30	.30	.31	.32	.33	.34	.36	.38	.40	.42	.44	.47	.49
		557	531	506	483	462	444	425	413	403	397	395	395	400	408	419	434	452	473	503	531	561	594	628	664
45		.44	.42	.41	.39	.37	.36	.35	.34	.33	.33	.33	.33	.33	.34	.34	.36	.37	.39	.41	.43	.45	.47	.50	.52
		594	567	542	519	498	479	460	448	439	433	431	432	436	444	456	471	490	512	542	570	600	633	667	703
1000		.47	.45	.43	.41	.40	.38	.37	.36	.36	.35	.35	.35	.36	.36	.37	.38	.40	.41	.43	.45	.48	.50	.52	.55
		628	600	575	551	530	511	493	480	471	465	463	465	469	478	490	506	524	546	577	605	635	668	703	738
15		.49	.47	.45	.43	.42	.41	.39	.38	.38	.37	.37	.37	.38	.38	.39	.40	.42	.44	.46	.48	.50	.52	.55	.57
		657	630	604	580	559	540	521	509	500	494	493	494	499	508	521	536	555	578	608	637	667	700	734	770
30		.51	.49	.47	.45	.44	.42	.41	.40	.40	.39	.39	.39	.40	.40	.41	.43	.44	.46	.48	.50	.52	.54	.57	.59
		683	655	629	605	584	565	546	534	525	520	518	520	526	535	547	564	583	605	636	664	695	728	762	797
45		.52	.50	.49	.47	.45	.44	.43	.42	.41	.41	.41	.41	.41	.42	.43	.44	.46	.47	.50	.52	.54	.56	.59	.61
		705	677	651	627	605	586	567	555	547	542	540	542	548	558	571	587	607	629	660	689	719	752	786	821
1100		.54	.52	.50	.48	.47	.45	.44	.43	.43	.42	.42	.42	.43	.44	.45	.46	.47	.49	.51	.53	.55	.58	.60	.63
		723	695	668	644	622	603	585	573	565	560	559	561	567	577	590	607	626	649	680	709	739	772	806	841
15		.55	.53	.51	.49	.48	.46	.45	.44	.44	.43	.43	.44	.44	.45	.46	.47	.48	.50	.52	.54	.57	.59	.61	.64
		737	708	681	657	636	617	598	587	579	574	573	576	582	592	606	622	642	665	696	725	755	788	821	856
30		.56	.53	.52	.50	.48	.47	.46	.45	.44	.44	.44	.44	.45	.46	.47	.48	.49	.51	.53	.55	.57	.60	.62	.65
		746	718	691	666	645	626	608	596	589	584	584	587	593	603	617	634	654	677	708	737	767	799	833	867
45		.56	.54	.52	.50	.49	.47	.46	.45	.45	.45	.45	.45	.45	.46	.47	.48	.50	.52	.54	.56	.58	.60	.63	.65
		752	723	696	672	650	632	614	602	595	591	590	593	600	611	625	642	662	685	716	745	775	807	840	874

MAY-AUG 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.56	.54	.52	.50	.49	.48	.46	.46	.45	.45	.45	.45	.46	.46	.47	.49	.50	.52	.54	.56	.58	.61	.63	.65
	753	724	697	673	651	633	615	604	597	593	593	596	604	614	628	646	666	689	720	745	778	810	842	876
15	.56	.54	.52	.50	.49	.47	.46	.45	.45	.45	.45	.45	.46	.46	.47	.49	.50	.52	.54	.56	.58	.60	.63	.65
	750	721	694	670	648	630	613	602	595	591	591	595	603	614	628	645	666	689	720	748	777	809	841	874
30	.55	.53	.51	.50	.48	.47	.46	.45	.44	.44	.44	.45	.45	.46	.47	.48	.50	.52	.54	.56	.58	.60	.62	.65
	742	713	686	662	641	623	606	596	589	586	586	590	598	609	623	641	661	684	715	743	772	803	835	868
45	.54	.52	.50	.49	.47	.46	.45	.44	.44	.44	.44	.44	.45	.45	.46	.48	.49	.51	.53	.55	.57	.59	.62	.64
	731	702	675	651	630	612	596	585	579	576	577	581	589	600	615	633	653	676	706	734	763	794	825	857
1300	.53	.51	.49	.48	.46	.45	.44	.43	.43	.42	.43	.43	.44	.44	.46	.47	.48	.50	.52	.54	.56	.58	.60	.63
	715	686	660	636	615	598	581	571	565	562	564	568	576	588	602	620	640	663	694	721	750	780	811	842
15	.52	.50	.48	.46	.45	.44	.42	.42	.41	.41	.41	.42	.42	.43	.44	.46	.47	.49	.51	.53	.55	.57	.59	.61
	695	666	640	617	596	579	563	553	547	545	546	551	560	571	586	604	624	647	677	704	732	762	792	823
30	.50	.48	.46	.44	.43	.42	.41	.40	.40	.40	.40	.40	.41	.42	.43	.44	.46	.47	.49	.51	.53	.55	.57	.60
	672	643	617	593	573	556	541	531	526	524	526	531	539	551	566	583	604	626	656	682	711	740	769	800
45	.48	.46	.44	.42	.41	.40	.39	.38	.38	.38	.38	.38	.39	.40	.41	.42	.44	.45	.47	.49	.51	.53	.55	.58
	644	615	589	566	547	530	515	506	501	499	501	506	515	527	542	559	579	602	631	657	685	713	743	773
1400	.46	.44	.42	.40	.39	.38	.37	.36	.36	.36	.36	.36	.37	.38	.39	.40	.42	.43	.45	.47	.49	.51	.53	.55
	613	584	558	536	516	500	485	477	472	471	473	478	487	499	514	532	551	574	603	628	656	684	712	741
15	.43	.41	.39	.38	.36	.35	.34	.34	.33	.33	.33	.34	.34	.35	.36	.38	.39	.41	.43	.45	.47	.49	.51	.53
	577	549	524	502	483	467	452	444	440	439	441	447	456	468	483	500	520	542	570	596	622	650	678	706
30	.40	.38	.36	.35	.33	.32	.31	.31	.31	.30	.31	.31	.32	.33	.34	.35	.37	.38	.40	.42	.44	.46	.48	.50
	539	511	486	464	445	430	416	408	404	403	406	412	421	433	448	465	485	507	535	560	586	613	640	668
* 45	.37	.35	.33	.32	.30	.29	.28	.28	.28	.28	.28	.28	.29	.30	.31	.32	.34	.35	.37	.39	.41	.43	.45	.47
	497	469	445	423	405	390	377	369	366	365	368	374	383	395	410	427	447	468	496	520	546	572	599	626

MAY-AUG 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500	.34	.32	.30	.28	.27	.26	.25	.25	.24	.24	.25	.25	.26	.27	.28	.29	.31	.32	.34	.36	.38	.39	.41	.43
	452	425	401	379	362	347	334	327	324	324	327	333	342	354	369	386	405	426	453	477	502	528	554	580
15	.30	.28	.26	.25	.24	.23	.22	.21	.21	.21	.21	.22	.23	.24	.25	.26	.27	.29	.31	.32	.34	.36	.38	.40
	404	377	353	333	315	301	289	282	279	279	283	289	299	311	325	342	361	381	408	431	456	481	506	532
30	.26	.24	.23	.21	.20	.19	.18	.18	.18	.18	.18	.18	.19	.20	.21	.22	.24	.25	.27	.29	.30	.32	.34	.36
	353	327	304	283	266	253	241	235	232	232	236	243	252	264	278	295	314	334	360	383	406	431	456	481
45	.22	.20	.19	.17	.16	.15	.14	.14	.14	.14	.14	.15	.15	.16	.17	.19	.20	.21	.23	.25	.27	.28	.30	.32
	300	274	251	232	215	202	191	185	182	183	187	194	203	215	229	246	264	284	309	331	355	378	402	427
1600	.18	.16	.15	.13	.12	.11	.10	.10	.10	.10	.10	.11	.12	.12	.13	.15	.16	.17	.19	.21	.23	.24	.26	.28
	244	219	197	177	162	149	138	133	131	132	135	142	152	164	178	194	212	231	256	278	300	323	347	371
15	.14	.12	.10	.09	.08	.07	.06	.06	.06	.06	.06	.07	.07	.08	.09	.11	.12	.13	.15	.17	.18	.20	.22	.23
	187	162	140	121	106	094	084	079	077	078	082	089	098	110	124	140	157	176	200	222	244	266	289	312
30	.09	.08	.06	.05	.04	.03	.02	.02	.02	.02	.02	.03	.03	.04	.05	.06	.08	.09	.11	.12	.14	.16	.17	.19
	127	103	082	064	049	037	027	023	021	023	027	034	043	055	068	084	101	119	143	164	185	207	229	251
45	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.05	.06	.08	.09	.11	.13	.14
	066	042	022	004	000	000	000	000	000	000	000	000	000	000	011	026	043	061	084	104	125	146	168	189
1700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.06	.08	.09
	004	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	001	024	043	063	084	105	126
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	020	040	061
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.04	.04	.04	.04	.04	.03	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	018	034	046	054	059	060	057	051	041	029
0500	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.06	.07	.08	.08	.09	.09	.09	.08	.07	.06
	000	000	000	000	000	000	000	000	000	000	000	012	043	064	083	098	110	118	122	123	120	113	104	091
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.09	.11	.12	.12	.13	.13	.13	.13	.13	.12	.11
	000	000	000	000	000	000	000	000	000	020	051	079	109	131	149	164	175	182	186	187	183	177	167	154
30	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.09	.11	.13	.14	.15	.16	.17	.18	.18	.18	.18	.17	.16	.15
	000	000	000	000	000	000	000	021	056	088	119	147	176	197	215	229	240	248	251	251	248	241	231	219
45	.00	.00	.00	.00	.00	.01	.04	.07	.09	.11	.14	.15	.18	.19	.20	.21	.22	.22	.22	.22	.22	.22	.21	.20
	000	000	000	000	000	016	054	090	124	157	187	214	244	264	282	296	306	313	316	316	313	306	296	283
0600	.00	.00	.00	.01	.03	.06	.09	.12	.14	.16	.18	.20	.22	.24	.25	.26	.27	.27	.27	.27	.27	.26	.26	.25
	000	000	000	009	047	085	122	158	192	225	255	282	311	331	348	362	372	379	382	382	378	371	361	349
15	.00	.00	.03	.06	.08	.11	.14	.17	.19	.21	.23	.25	.27	.29	.30	.31	.31	.32	.32	.32	.31	.31	.30	.29
	000	001	039	077	115	153	190	226	261	293	322	349	373	398	415	428	438	444	447	447	443	436	426	414
30	.02	.05	.08	.11	.13	.16	.19	.21	.24	.26	.28	.30	.32	.33	.34	.35	.36	.36	.36	.35	.35	.35	.35	.34
	032	068	106	144	183	221	258	294	328	360	390	416	444	464	481	494	503	509	512	511	508	501	491	479
45	.07	.10	.13	.16	.18	.21	.24	.26	.29	.31	.33	.35	.37	.38	.39	.40	.40	.41	.41	.41	.40	.40	.39	.38
	098	135	173	211	250	288	325	361	395	427	456	482	510	529	546	558	568	574	576	575	572	565	555	543

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE SEP 5	10	15	20	25	30	OCT 5	10	15	20	25	30	NOV 5	10	15	20	25	30	DEC 5	10	15	20	25	30
0700	.12	.15	.18	.20	.23	.26	.29	.31	.33	.36	.38	.39	.41	.43	.44	.44	.45	.45	.45	.45	.45	.44	.44	.43
	163	200	239	277	316	354	391	427	460	492	521	547	574	593	609	622	631	637	639	639	635	628	619	607
15	.17	.20	.22	.25	.28	.31	.33	.36	.38	.40	.42	.44	.46	.47	.48	.49	.49	.50	.50	.50	.49	.49	.48	.47
	227	265	303	342	380	418	455	491	524	556	584	610	637	656	672	684	693	699	701	700	697	690	681	669
30	.22	.24	.27	.30	.33	.35	.38	.40	.43	.45	.47	.48	.50	.51	.52	.53	.54	.54	.54	.54	.54	.53	.52	.52
	290	327	366	405	443	481	518	553	587	618	646	672	693	717	733	745	753	759	761	761	757	751	742	731
45	.26	.29	.32	.34	.37	.40	.42	.45	.47	.49	.51	.53	.54	.56	.57	.57	.58	.58	.58	.58	.58	.57	.57	.56
	351	388	427	466	505	542	579	614	647	678	706	731	758	776	791	803	812	817	820	819	816	810	801	790
0800	.30	.33	.36	.39	.41	.44	.47	.49	.51	.53	.55	.57	.58	.60	.61	.61	.62	.62	.62	.62	.62	.61	.61	.60
	409	448	486	525	564	601	638	672	705	736	764	789	815	833	848	860	868	874	876	876	873	867	859	848
15	.35	.37	.40	.43	.46	.48	.51	.53	.55	.57	.59	.61	.62	.64	.64	.65	.66	.66	.66	.66	.66	.65	.65	.64
	466	504	543	582	620	658	694	728	761	791	819	844	869	887	902	914	922	928	931	930	927	922	914	904
30	.39	.41	.44	.47	.49	.52	.55	.57	.59	.61	.63	.64	.66	.67	.68	.69	.69	.70	.70	.70	.69	.69	.68	.68
	521	559	597	636	674	711	747	782	814	844	871	896	921	939	954	965	974	980	982	982	980	974	967	957
45	.42	.45	.48	.51	.53	.56	.58	.61	.63	.65	.66	.68	.70	.71	.72	.72	.73	.73	.73	.73	.73	.72	.72	.71
	572	610	649	687	725	762	798	832	864	894	921	945	970	988	*002	*014	*023	*028	*031	*031	*029	*024	*017	*008
0900	.46	.49	.51	.54	.57	.59	.62	.64	.66	.68	.70	.71	.73	.74	.75	.76	.76	.76	.76	.76	.76	.76	.75	.75
	621	659	697	736	773	810	846	879	911	940	967	991	*016	*033	*048	*060	*068	*074	*077	*078	*076	*071	*065	*056
15	.49	.52	.55	.57	.60	.63	.65	.67	.69	.71	.73	.74	.76	.77	.78	.79	.79	.79	.79	.79	.79	.79	.78	.78
	666	704	743	781	818	855	890	923	954	983	*010	*034	*056	*076	*090	*102	*111	*117	*120	*121	*119	*115	*109	*101
30	.53	.55	.58	.61	.63	.66	.68	.70	.72	.74	.76	.77	.79	.80	.81	.81	.82	.82	.82	.82	.82	.82	.81	.81
	709	746	784	822	859	896	930	963	994	*023	*049	*073	*097	*115	*129	*141	*150	*156	*160	*161	*160	*156	*151	*143
45	.55	.58	.61	.63	.66	.68	.71	.73	.75	.77	.78	.80	.81	.82	.83	.84	.84	.85	.85	.85	.85	.84	.84	.84
	747	785	823	860	897	933	967	*000	*031	*059	*085	*108	*133	*150	*164	*176	*185	*192	*196	*197	*196	*194	*189	*182

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.58	.61	.63	.66	.68	.71	.73	.75	.77	.79	.81	.82	.84	.85	.85	.86	.87	.87	.87	.87	.87	.87	.86	.86
	782	820	857	895	931	966	*000	*033	*063	*091	*117	*140	*164	*181	*196	*208	*217	*224	*228	*230	*230	*227	*223	*217
15	.60	.63	.66	.68	.71	.73	.75	.77	.79	.81	.83	.84	.86	.87	.87	.88	.89	.89	.89	.89	.89	.89	.89	.88
	814	851	888	925	961	996	*029	*061	*091	*119	*144	*167	*191	*209	*223	*235	*245	*252	*257	*259	*259	*257	*254	*248
30	.62	.65	.68	.70	.72	.75	.77	.79	.81	.83	.84	.86	.87	.88	.89	.90	.90	.91	.91	.91	.91	.91	.91	.90
	841	878	915	951	987	*021	*054	*086	*116	*143	*168	*191	*215	*232	*247	*259	*269	*276	*281	*284	*285	*284	*281	*276
45	.64	.67	.69	.72	.74	.76	.78	.80	.82	.84	.86	.87	.89	.90	.90	.91	.92	.92	.92	.92	.92	.92	.92	.92
	864	901	937	973	*008	*042	*075	*106	*136	*163	*188	*210	*234	*251	*266	*279	*289	*296	*302	*305	*307	*306	*304	*299
1100	.66	.68	.71	.73	.75	.78	.80	.82	.84	.85	.87	.88	.90	.91	.92	.92	.93	.93	.94	.94	.94	.94	.93	.93
	883	919	955	991	*026	*059	*092	*122	*151	*178	*203	*225	*249	*266	*281	*294	*304	*312	*318	*322	*324	*324	*322	*319
15	.67	.69	.72	.74	.76	.78	.81	.83	.84	.86	.88	.89	.90	.91	.92	.93	.94	.94	.94	.95	.95	.95	.95	.94
	898	934	969	*004	*039	*072	*104	*134	*162	*189	*213	*236	*260	*277	*292	*305	*316	*324	*331	*335	*336	*338	*337	*334
30	.67	.70	.72	.75	.77	.79	.81	.83	.85	.87	.88	.89	.91	.92	.93	.94	.94	.95	.95	.95	.95	.95	.95	.95
	909	944	979	*014	*047	*080	*111	*141	*169	*196	*220	*242	*266	*283	*299	*312	*323	*332	*339	*344	*347	*348	*348	*346
45	.68	.70	.73	.75	.77	.79	.81	.83	.85	.87	.88	.90	.91	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96
	915	950	984	*018	*051	*084	*114	*144	*172	*198	*222	*244	*268	*285	*301	*314	*326	*335	*343	*349	*352	*354	*354	*353
1200	.68	.70	.73	.75	.77	.79	.81	.83	.85	.86	.88	.89	.91	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96	.96
	917	951	985	*018	*051	*083	*113	*142	*170	*195	*219	*241	*265	*283	*299	*313	*324	*334	*343	*349	*353	*356	*356	*355
15	.68	.70	.72	.75	.77	.79	.81	.83	.84	.86	.87	.89	.90	.91	.92	.93	.94	.94	.95	.95	.96	.96	.96	.96
	914	948	981	*014	*046	*077	*107	*136	*163	*188	*212	*234	*258	*276	*292	*306	*319	*329	*338	*345	*350	*353	*354	*354
30	.67	.70	.72	.74	.76	.78	.80	.82	.84	.85	.87	.88	.89	.91	.92	.92	.93	.94	.94	.95	.95	.95	.95	.95
	907	940	973	*005	*037	*068	*097	*125	*152	*177	*201	*223	*247	*265	*281	*296	*309	*320	*329	*336	*342	*346	*348	*348
45	.66	.69	.71	.73	.75	.77	.79	.81	.82	.84	.86	.87	.88	.89	.90	.91	.92	.93	.93	.94	.94	.94	.95	.95
	896	928	961	992	*023	*053	*082	*110	*137	*162	*185	*207	*231	*250	*266	*281	*294	*306	*316	*324	*330	*335	*337	*338

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300	.65	.68	.70	.72	.74	.76	.78	.79	.81	.83	.84	.85	.87	.88	.89	.90	.91	.92	.92	.93	.93	.93	.94	.94
	880	912	944	975	*005	*035	*063	*091	*117	*142	*165	*187	*211	*230	*247	*262	*276	*288	*298	*307	*314	*319	*323	*324
15	.64	.66	.68	.70	.72	.74	.76	.78	.79	.81	.82	.84	.85	.86	.87	.88	.89	.90	.91	.91	.92	.92	.92	.92
	861	892	923	953	983	*012	*040	*067	*093	*117	*141	*163	*187	*206	*223	*239	*253	*266	*277	*285	*294	*300	*304	*306
30	.62	.64	.66	.68	.70	.72	.74	.76	.77	.79	.80	.82	.83	.84	.85	.86	.87	.88	.89	.89	.90	.90	.91	.91
	837	867	897	927	956	985	*012	*039	*065	*089	*112	*134	*159	*178	*196	*212	*227	*240	*252	*262	*270	*276	*281	*284
45	.60	.62	.64	.66	.68	.70	.72	.73	.75	.76	.78	.79	.81	.82	.83	.84	.85	.86	.87	.87	.88	.88	.89	.89
	808	838	868	897	926	954	981	*007	*032	*057	*080	*102	*127	*146	*164	*181	*196	*210	*222	*233	*242	*249	*254	*257
1400	.58	.60	.62	.64	.65	.67	.69	.71	.72	.74	.75	.77	.78	.80	.81	.82	.83	.84	.84	.85	.86	.86	.86	.87
	777	806	835	863	891	919	946	971	996	*021	*044	*066	*091	*111	*129	*146	*162	*177	*189	*200	*210	*218	*223	*227
15	.55	.57	.59	.61	.63	.64	.66	.68	.69	.71	.72	.74	.75	.77	.78	.79	.80	.81	.82	.83	.83	.84	.84	.84
	741	769	798	826	853	880	906	932	957	981	*004	*026	*052	*072	*090	*108	*124	*139	*153	*164	*174	*183	*189	*193
30	.52	.54	.56	.58	.60	.61	.63	.65	.66	.68	.69	.71	.72	.74	.75	.76	.77	.78	.79	.80	.80	.81	.81	.82
	701	729	757	784	811	838	864	889	913	937	960	983	*009	*029	*048	*066	*083	*099	*113	*125	*136	*144	*151	*156
45	.49	.51	.53	.54	.56	.58	.60	.61	.63	.64	.66	.67	.69	.70	.72	.73	.74	.75	.76	.77	.77	.78	.78	.79
	659	686	713	740	766	792	817	842	867	891	914	936	962	983	*003	*021	*038	*055	*069	*082	*093	*103	*110	*115
1500	.45	.47	.49	.51	.53	.54	.56	.58	.59	.61	.62	.64	.66	.67	.68	.69	.71	.72	.73	.73	.74	.75	.75	.76
	612	639	665	691	717	743	768	793	817	841	864	886	913	934	954	973	991	*007	*023	*036	*048	*058	*065	*071
15	.42	.44	.45	.47	.49	.51	.52	.54	.55	.57	.59	.60	.62	.63	.64	.66	.67	.68	.69	.70	.71	.71	.72	.72
	563	589	615	640	666	691	716	740	764	788	811	834	860	882	902	922	940	957	973	987	999	*010	*018	*024
30	.38	.40	.41	.43	.45	.47	.48	.50	.51	.53	.55	.56	.58	.59	.61	.62	.63	.64	.65	.66	.67	.68	.68	.69
	511	536	561	586	611	636	660	685	708	732	756	779	805	827	848	868	887	905	921	935	948	959	968	974
45	.34	.36	.37	.39	.41	.42	.44	.46	.47	.49	.50	.52	.54	.55	.57	.58	.59	.60	.61	.62	.63	.64	.65	.65
	456	481	505	530	554	576	603	627	650	674	698	721	748	770	792	812	831	850	866	881	895	906	915	921

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1600	.30	.31	.33	.35	.36	.38	.40	.41	.43	.44	.46	.48	.49	.51	.52	.54	.55	.56	.57	.58	.59	.60	.61	.61
	399	423	447	471	495	519	543	566	590	614	637	661	688	711	733	754	774	792	809	825	839	850	959	866
15	.25	.27	.29	.30	.32	.33	.35	.37	.38	.40	.42	.43	.45	.47	.48	.49	.51	.52	.53	.54	.55	.56	.57	.57
	340	363	387	410	433	457	481	504	528	552	575	599	627	650	672	693	714	733	751	767	781	792	802	809
30	.21	.22	.24	.26	.27	.29	.30	.32	.34	.35	.37	.39	.40	.42	.44	.45	.46	.48	.49	.50	.51	.52	.53	.53
	279	301	324	347	370	393	417	440	464	488	512	535	564	587	610	631	652	672	690	705	721	733	743	750
45	.16	.18	.19	.21	.22	.24	.26	.27	.29	.31	.32	.34	.36	.37	.39	.41	.42	.43	.45	.46	.47	.48	.48	.49
	216	238	260	283	305	328	351	375	398	422	446	470	499	523	546	568	589	609	628	645	659	672	682	689
1700	.11	.13	.14	.16	.18	.19	.21	.22	.24	.26	.27	.29	.31	.33	.34	.36	.37	.39	.40	.41	.42	.43	.44	.44
	151	173	195	217	239	262	285	308	332	356	380	404	433	457	481	504	525	546	565	582	597	609	619	627
15	.06	.08	.10	.11	.13	.14	.16	.18	.19	.21	.23	.24	.26	.28	.30	.31	.33	.34	.36	.37	.38	.39	.39	.40
	086	107	128	150	172	195	217	241	264	288	313	337	367	391	415	438	460	481	500	518	533	546	556	563
30	.02	.03	.05	.06	.08	.09	.11	.13	.14	.16	.18	.19	.22	.23	.25	.27	.28	.30	.31	.32	.33	.34	.35	.35
	020	040	061	083	104	127	149	173	196	220	245	270	300	324	349	372	395	416	435	453	468	481	492	499
45	.00	.00	.00	.01	.03	.04	.06	.08	.09	.11	.13	.15	.17	.18	.20	.22	.23	.25	.26	.28	.29	.30	.30	.31
	000	000	000	015	036	058	081	104	128	152	177	202	232	257	282	306	329	350	370	388	404	417	427	434
1800	.00	.00	.00	.00	.00	.00	.01	.03	.04	.06	.08	.10	.12	.14	.15	.17	.19	.20	.22	.23	.24	.25	.26	.26
	000	000	000	000	000	000	012	036	059	084	109	134	165	190	215	240	263	285	305	323	338	352	362	369
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.09	.11	.12	.14	.16	.17	.18	.19	.20	.21	.22
	000	000	000	000	000	000	000	000	000	016	041	067	098	124	149	174	197	219	239	258	273	287	297	304
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.09	.11	.12	.14	.15	.16	.16	.17
	000	000	000	000	000	000	000	000	000	000	000	000	032	059	083	108	132	154	175	193	209	222	232	239
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.06	.08	.09	.10	.11	.12	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	018	043	067	090	110	129	145	158	168	175

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.06	.07	.07	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	027	047	063	082	095	104	111
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.03
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	004	020	033	042	048
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 40 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

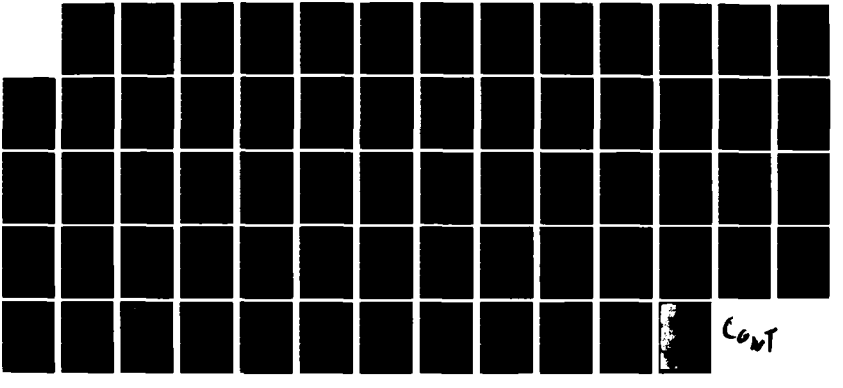
*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																	
	JAN							FEB						MAR							APR														
	1	5	10	15	20	25	30	5	10	15	20	25		5	10	15	20	25	30		5	10	15	20	25	30								
0300	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	013	002	000	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	044	032	013	000	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
30	.05	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	077	064	046	023	000	000	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
45	.08	.07	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	111	099	080	057	032	003	000	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
0400	.10	.10	.08	.07	.05	.03	.01	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	147	134	116	093	067	039	008	000	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.13	.12	.11	.09	.07	.05	.03	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	184	172	153	130	105	076	045	005	000	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
30	.16	.15	.14	.12	.10	.08	.06	.03	.01	.00	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	223	210	191	169	143	115	084	044	009	000	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
45	.19	.18	.16	.15	.13	.11	.09	.06	.04	.01	.00	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	262	250	231	209	183	155	124	084	050	014	000	000		000	000	000	000	000	000		000	000	000	000	000	000								
0500	.21	.21	.19	.18	.16	.14	.12	.09	.07	.04	.01	.00		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	303	290	272	249	224	196	165	126	091	055	019	000		000	000	000	000	000	000		000	000	000	000	000	000								
15	.24	.23	.22	.21	.19	.17	.15	.12	.10	.07	.04	.02		.00	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	344	332	313	291	266	238	207	168	134	098	062	024		000	000	000	000	000	000		000	000	000	000	000	000								
30	.27	.26	.25	.24	.22	.20	.18	.15	.13	.10	.08	.05		.01	.00	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	386	374	355	333	308	280	250	211	177	142	105	068		008	000	000	000	000	000		000	000	000	000	000	000								
45	.30	.29	.28	.27	.25	.23	.21	.18	.16	.13	.11	.08		.04	.01	.00	.00	.00	.00		.00	.00	.00	.00	.00	.00								
	428	416	398	376	351	324	294	255	221	186	150	113		053	016	000	000	000	000		000	000	000	000	000	000								

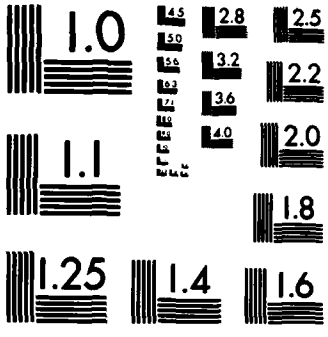
JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
XO (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

AD-A127 853 FINAL TACTICAL DECISION AID (FTDA) FOR INFRARED (8-12 MICROMETERS) SYSTEM.. (U) SYSTEMS AND APPLIED SCIENCES CORP RIVERDALE MD D B HODGES ET AL. 15 SEP 82 4/5

UNCLASSIFIED SCIENTIFIC-3 AFGL-TR-82-0294 F/G 3/2 NL



CONT



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0600	.33	.32	.31	.30	.28	.26	.24	.21	.19	.16	.14	.11	.07	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	471	459	440	419	394	367	337	299	266	231	195	158	098	061	024	000	000	000	000	000	000	000	000	000
15	.36	.35	.34	.33	.31	.29	.27	.24	.22	.20	.17	.15	.10	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00
	514	502	483	462	438	411	381	343	310	275	239	203	144	106	069	032	000	000	000	000	000	000	000	000
30	.39	.38	.37	.36	.34	.32	.30	.28	.25	.23	.20	.18	.14	.11	.08	.06	.03	.00	.00	.00	.00	.00	.00	.00
	556	544	526	505	481	454	425	388	354	320	284	248	189	152	114	077	041	005	000	000	000	000	000	000
45	.42	.41	.40	.39	.37	.35	.33	.31	.28	.26	.24	.21	.17	.14	.12	.09	.06	.04	.01	.00	.00	.00	.00	.00
	598	586	569	548	524	498	469	432	399	364	329	293	234	196	159	122	085	049	006	000	000	000	000	000
0700	.45	.44	.43	.42	.40	.38	.36	.34	.32	.29	.27	.24	.20	.17	.15	.12	.09	.07	.04	.01	.00	.00	.00	.00
	640	628	611	590	567	541	512	475	443	409	373	337	278	241	204	166	129	093	050	015	000	000	000	000
15	.48	.47	.46	.45	.43	.41	.39	.37	.35	.32	.30	.27	.23	.21	.18	.15	.13	.10	.07	.04	.02	.00	.00	.00
	681	669	652	632	609	583	555	518	486	452	417	381	322	285	247	210	173	136	092	057	022	000	000	000
30	.51	.50	.49	.48	.46	.44	.42	.40	.38	.35	.33	.30	.26	.24	.21	.18	.16	.13	.10	.07	.05	.02	.00	.00
	721	710	693	673	650	625	597	561	528	495	460	424	365	328	290	253	215	178	134	099	064	030	000	000
45	.54	.53	.52	.50	.49	.47	.45	.43	.41	.38	.36	.33	.29	.27	.24	.21	.19	.16	.13	.10	.08	.05	.03	.00
	760	749	732	713	690	665	638	602	570	537	502	466	408	370	332	295	257	220	175	139	104	069	036	004
0800	.56	.56	.55	.53	.52	.50	.48	.46	.43	.41	.39	.36	.32	.30	.27	.24	.22	.19	.16	.13	.11	.08	.06	.03
	798	787	771	752	729	705	678	642	611	577	543	507	448	411	373	335	297	260	215	178	142	107	074	042
15	.59	.58	.57	.56	.54	.53	.51	.48	.46	.44	.42	.39	.35	.33	.30	.27	.24	.22	.19	.16	.13	.11	.08	.06
	834	824	808	789	767	743	716	681	650	617	582	547	488	451	413	374	336	298	253	216	180	144	110	078
30	.61	.61	.60	.58	.57	.55	.53	.51	.49	.47	.44	.42	.38	.35	.33	.30	.27	.24	.21	.19	.16	.13	.11	.08
	869	859	844	825	804	780	753	718	687	655	620	585	526	489	450	412	373	335	289	252	215	180	145	112
45	.64	.63	.62	.61	.59	.58	.56	.54	.52	.49	.47	.45	.40	.38	.35	.32	.30	.27	.24	.21	.18	.16	.13	.11
	903	893	878	860	839	815	789	754	724	691	657	621	563	525	487	448	409	370	324	286	249	213	178	145

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																											
	JAN							FEB					MAR						APR									
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30				
0900	.66	.65	.64	.63	.62	.60	.58	.56	.54	.52	.49	.47	.43	.40	.38	.35	.32	.29	.26	.23	.21	.18	.16	.13				
	934	925	910	892	872	848	822	788	758	725	691	656	597	559	521	482	443	404	357	319	281	245	209	176				
15	.68	.67	.66	.65	.64	.62	.61	.58	.56	.54	.52	.49	.45	.43	.40	.37	.35	.32	.28	.26	.23	.20	.18	.15				
	964	955	940	923	903	880	854	821	790	758	724	689	630	592	553	514	474	435	388	349	311	274	239	204				
30	.70	.69	.68	.67	.66	.64	.63	.60	.58	.56	.54	.52	.47	.45	.42	.39	.37	.34	.31	.28	.25	.22	.20	.17				
	991	982	968	951	932	909	884	851	821	788	755	719	660	622	583	544	504	464	417	378	339	302	266	231				
45	.72	.71	.70	.69	.68	.66	.65	.62	.60	.58	.56	.54	.50	.47	.44	.41	.39	.36	.32	.30	.27	.24	.22	.19				
	*017	*008	995	978	959	936	911	879	849	817	783	748	689	650	611	571	531	491	443	404	365	327	290	255				
1000	.73	.73	.72	.71	.70	.68	.66	.64	.62	.60	.58	.55	.51	.49	.46	.43	.40	.38	.34	.31	.29	.26	.23	.21				
	*040	*031	*018	*002	983	961	937	904	874	843	809	774	715	676	637	597	556	516	467	427	388	350	313	278				
15	.75	.74	.74	.72	.71	.70	.68	.66	.64	.62	.60	.57	.53	.50	.48	.45	.42	.39	.36	.33	.30	.27	.25	.22				
	*060	*052	*040	*024	*005	984	960	927	898	866	833	797	738	699	660	619	578	538	489	448	409	370	333	297				
30	.76	.76	.75	.74	.73	.71	.70	.67	.65	.63	.61	.59	.55	.52	.49	.46	.43	.41	.37	.34	.31	.29	.26	.23				
	*079	*071	*059	*043	*025	*004	980	948	919	887	854	818	759	720	680	639	598	557	507	467	427	388	350	314				
45	.77	.77	.76	.75	.74	.72	.71	.69	.67	.65	.62	.60	.56	.53	.50	.48	.45	.42	.38	.35	.33	.30	.27	.24				
	*094	*087	*075	*060	*042	*021	998	966	937	906	872	837	777	738	698	657	615	574	524	483	442	403	365	329				
1100	.78	.78	.77	.76	.75	.73	.72	.70	.68	.66	.63	.61	.57	.54	.52	.49	.46	.43	.39	.36	.33	.31	.28	.25				
	*107	*100	*089	*074	*057	*036	*013	981	952	921	888	852	792	753	712	671	629	587	537	496	455	415	377	341				
15	.79	.79	.78	.77	.76	.74	.73	.71	.69	.67	.64	.62	.58	.55	.52	.50	.47	.44	.40	.37	.34	.31	.29	.26				
	*117	*111	*100	*086	*068	*048	*025	994	965	934	901	865	805	765	725	683	641	599	548	506	465	425	387	350				
30	.80	.79	.78	.77	.76	.75	.73	.71	.69	.67	.65	.63	.59	.56	.53	.50	.47	.44	.41	.38	.35	.32	.29	.26				
	*125	*119	*108	*094	*078	*058	*035	*004	975	944	911	875	815	775	734	692	649	607	556	514	472	432	393	356				
45	.80	.79	.79	.78	.77	.75	.74	.72	.70	.68	.66	.63	.59	.56	.54	.51	.48	.45	.41	.38	.35	.32	.29	.27				
	*130	*124	*114	*100	*084	*064	*042	*011	982	951	918	882	821	781	740	698	655	612	561	518	477	436	397	360				

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1200	.80	.80	.79	.78	.77	.76	.74	.72	.70	.68	.66	.63	.59	.57	.54	.51	.48	.45	.41	.38	.35	.32	.29	.27
	*132	*126	*116	*103	*087	*068	*046	*015	987	955	922	886	825	785	743	701	658	615	563	520	478	437	398	361
15	.80	.80	.79	.78	.77	.76	.74	.72	.70	.68	.66	.64	.59	.57	.54	.51	.48	.45	.41	.38	.35	.32	.29	.27
	*131	*126	*116	*104	*088	*069	*047	*016	988	957	923	887	826	786	744	701	658	614	562	519	477	436	396	359
30	.80	.79	.79	.78	.77	.76	.74	.72	.70	.68	.66	.63	.59	.56	.54	.51	.48	.45	.41	.38	.35	.32	.29	.26
	*127	*123	*113	*101	*086	*067	*045	*015	986	955	922	886	824	783	741	698	655	611	558	515	472	431	392	354
45	.79	.79	.78	.78	.76	.75	.74	.72	.70	.68	.66	.63	.59	.56	.53	.50	.47	.44	.40	.37	.34	.31	.28	.26
	*121	*117	*108	*096	*080	*062	*040	*010	982	951	917	881	819	778	736	692	648	604	551	508	465	424	384	347
1300	.79	.78	.78	.77	.76	.75	.73	.71	.69	.67	.65	.63	.58	.56	.53	.50	.46	.43	.40	.37	.34	.31	.28	.25
	*112	*108	*099	*088	*073	*054	*033	*003	974	943	909	873	811	770	727	684	639	595	542	498	455	414	374	337
15	.78	.77	.77	.76	.75	.74	.73	.71	.69	.67	.64	.62	.58	.55	.52	.49	.46	.42	.39	.36	.33	.30	.27	.24
	*100	*096	*088	*077	*062	*044	*022	992	964	933	899	863	800	759	716	672	628	583	529	485	442	401	361	324
30	.77	.76	.76	.75	.74	.73	.72	.70	.68	.66	.63	.61	.57	.54	.51	.48	.45	.41	.38	.35	.31	.28	.26	.23
	*086	*082	*074	*063	*049	*031	*009	979	951	920	886	849	786	745	702	658	613	568	514	470	427	385	346	308
45	.76	.75	.75	.74	.73	.72	.70	.68	.67	.64	.62	.60	.55	.52	.50	.46	.43	.40	.36	.33	.30	.27	.24	.22
	*069	*065	*058	*047	*033	*015	993	964	935	904	870	833	770	728	685	640	595	550	496	452	409	367	327	290
1400	.74	.74	.73	.73	.72	.71	.69	.67	.65	.63	.61	.58	.54	.51	.48	.45	.42	.39	.35	.32	.29	.26	.23	.20
	*049	*046	*039	*028	*014	996	975	945	917	885	851	814	751	709	665	621	575	530	476	431	388	347	307	269
15	.73	.72	.72	.71	.70	.69	.68	.66	.64	.62	.59	.57	.52	.50	.46	.43	.40	.37	.33	.30	.27	.24	.21	.18
	*027	*024	*017	*007	993	975	954	924	896	864	830	793	729	687	643	598	553	507	453	408	365	323	284	246
30	.71	.71	.70	.70	.69	.67	.66	.64	.62	.60	.58	.55	.51	.48	.45	.42	.38	.35	.31	.28	.25	.22	.19	.16
	*003	*000	993	983	969	952	930	901	872	840	806	769	705	662	618	573	527	482	427	383	339	298	258	221
45	.69	.69	.68	.68	.67	.66	.64	.62	.60	.58	.56	.53	.49	.46	.43	.40	.36	.33	.29	.26	.23	.20	.17	.14
	977	974	967	957	943	926	905	875	846	814	780	742	678	635	591	546	500	454	399	355	312	270	230	193

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

CATE

MST	JAN 1	JAN 5	JAN 10	JAN 15	JAN 20	JAN 25	JAN 30	FEB 5	FEB 10	FEB 15	FEB 20	FEB 25	MAR 5	MAR 10	MAR 15	MAR 20	MAR 25	MAR 30	APR 5	APR 10	APR 15	APR 20	APR 25	APR 30
1500	.67	.67	.66	.66	.65	.64	.62	.60	.58	.56	.54	.51	.47	.44	.41	.37	.34	.31	.27	.24	.21	.18	.15	.12
	948	945	939	929	915	898	876	846	818	786	751	713	649	606	561	516	470	424	369	325	282	240	201	164
15	.65	.65	.64	.64	.63	.61	.60	.58	.56	.54	.51	.49	.44	.41	.38	.35	.32	.29	.25	.22	.18	.15	.13	.10
	917	915	909	899	885	867	846	816	787	755	720	682	617	574	529	484	438	392	337	293	250	208	169	132
30	.63	.62	.62	.61	.60	.59	.58	.56	.54	.52	.49	.47	.42	.39	.36	.33	.29	.26	.22	.19	.16	.13	.10	.07
	885	882	876	866	853	835	814	784	755	722	687	649	584	540	496	450	404	358	303	259	216	174	135	099
45	.60	.60	.60	.59	.58	.57	.55	.53	.51	.49	.47	.44	.39	.36	.33	.30	.27	.24	.20	.16	.13	.10	.07	.05
	850	848	842	832	819	801	780	749	720	688	652	614	548	505	460	414	368	322	267	223	180	139	100	064
1600	.58	.57	.57	.56	.55	.54	.53	.51	.49	.46	.44	.41	.37	.34	.31	.27	.24	.21	.17	.14	.11	.08	.05	.02
	815	812	806	797	783	765	744	713	684	651	616	577	511	468	423	377	331	284	230	185	143	102	063	027
15	.55	.55	.54	.54	.53	.52	.50	.48	.46	.44	.41	.39	.34	.31	.28	.25	.21	.18	.14	.11	.08	.05	.02	.00
	777	775	769	759	746	728	706	675	646	613	577	539	473	429	384	338	291	245	191	147	104	063	025	000
30	.52	.52	.52	.51	.50	.49	.47	.45	.43	.41	.38	.36	.31	.28	.25	.22	.18	.15	.11	.08	.05	.02	.00	.00
	739	737	731	721	707	689	667	636	607	574	538	499	432	388	343	297	251	205	150	106	064	024	000	000
45	.49	.49	.49	.48	.47	.46	.45	.42	.40	.38	.36	.33	.28	.25	.22	.19	.15	.12	.08	.05	.02	.00	.00	.00
	699	697	691	681	667	649	627	596	566	533	497	458	391	347	302	256	209	163	109	065	023	000	000	000
1700	.47	.46	.46	.45	.44	.43	.42	.39	.37	.35	.33	.30	.25	.22	.19	.15	.12	.09	.05	.02	.00	.00	.00	.00
	658	657	650	640	626	608	586	554	524	491	455	415	348	304	259	213	167	121	067	023	000	000	000	000
15	.44	.43	.43	.42	.41	.40	.39	.36	.34	.32	.29	.27	.22	.19	.16	.12	.09	.06	.02	.00	.00	.00	.00	.00
	617	615	609	599	584	566	544	512	482	448	411	372	305	261	215	169	123	077	023	000	000	000	000	000
30	.41	.41	.40	.39	.38	.37	.36	.33	.31	.29	.26	.24	.19	.16	.12	.09	.06	.02	.00	.00	.00	.00	.00	.00
	575	573	567	557	542	523	501	469	438	405	368	328	261	216	171	125	079	033	000	000	000	000	000	000
45	.38	.38	.37	.36	.35	.34	.32	.30	.28	.26	.23	.20	.16	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00
	533	531	524	514	499	480	458	425	394	360	323	284	216	171	126	080	034	000	000	000	000	000	000	000

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1800	.35	.35	.34	.33	.32	.31	.29	.27	.25	.23	.20	.17	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00
	490	488	482	471	456	437	414	381	350	316	279	239	171	126	081	035	000	000	000	000	000	000	000	000
15	.32	.32	.31	.30	.29	.28	.26	.24	.22	.19	.17	.14	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
	448	445	439	428	412	393	370	337	306	271	234	194	126	081	036	000	000	000	000	000	000	000	000	000
30	.29	.28	.28	.27	.26	.25	.23	.21	.19	.16	.14	.11	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	405	403	396	385	369	350	326	293	261	226	189	149	080	036	000	000	000	000	000	000	000	000	000	000
45	.26	.26	.25	.24	.23	.22	.20	.18	.15	.13	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	363	360	353	342	326	306	282	249	217	182	144	104	035	000	000	000	000	000	000	000	000	000	000	000
1900	.23	.23	.22	.21	.20	.19	.17	.15	.12	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	321	319	311	299	283	263	239	205	173	138	100	059	000	000	000	000	000	000	000	000	000	000	000	000
15	.20	.20	.19	.18	.17	.16	.14	.12	.09	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	280	277	270	258	241	221	196	162	130	094	056	016	000	000	000	000	000	000	000	000	000	000	000	000
30	.17	.17	.16	.15	.14	.13	.11	.09	.06	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	240	237	229	217	200	179	155	120	087	052	013	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.14	.14	.13	.13	.11	.10	.08	.06	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	201	198	190	177	160	139	114	079	046	010	000	000	000	000	000	000	000	000	000	000	000	000	000	000
2000	.12	.11	.11	.10	.09	.07	.05	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	163	160	151	138	121	099	074	038	005	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.09	.09	.08	.07	.06	.04	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	127	123	114	101	083	061	035	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.07	.06	.06	.05	.03	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	092	088	078	065	046	024	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.04	.04	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	059	054	044	030	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
2100	.02	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	027	022	012	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 60 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0700	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	022
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	023	063
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	062	103
0800	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11
	011	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	025	062	100	141
15	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13
	047	018	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	028	062	098	137	178
30	.06	.04	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.16
	081	051	024	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	032	063	097	133	172	213
45	.08	.06	.04	.02	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.05	.07	.10	.13	.15	.18
	113	083	056	030	008	000	000	000	000	000	000	000	000	000	000	000	008	032	065	096	130	167	206	247
0900	.11	.08	.06	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.10	.12	.15	.18	.21
	143	113	085	060	037	018	000	000	000	000	000	000	000	000	000	017	038	062	096	127	161	198	237	279
15	.13	.11	.09	.07	.05	.03	.02	.01	.00	.00	.00	.00	.00	.01	.02	.04	.05	.07	.09	.12	.14	.17	.20	.23
	172	141	113	088	065	045	026	013	004	000	000	000	005	015	029	046	067	091	125	157	191	228	267	308
30	.15	.13	.10	.09	.07	.05	.04	.03	.02	.02	.02	.02	.02	.03	.04	.06	.07	.09	.11	.14	.16	.19	.22	.25
	198	167	139	113	090	070	051	038	029	024	022	025	031	041	055	073	094	118	152	184	219	256	295	336
45	.17	.14	.12	.10	.09	.07	.06	.05	.04	.04	.04	.04	.04	.05	.06	.07	.09	.11	.13	.16	.18	.21	.24	.27
	222	191	163	137	114	094	074	061	052	047	046	048	055	065	079	097	118	143	177	209	244	281	320	361

MAY-AUG 60 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.18	.16	.14	.12	.10	.09	.07	.06	.06	.05	.05	.05	.06	.07	.08	.09	.11	.13	.15	.17	.20	.23	.26	.29
	244	213	184	158	135	115	095	082	074	069	067	070	077	087	101	119	141	166	200	232	267	304	343	384
15	.20	.17	.15	.13	.12	.10	.09	.08	.07	.07	.07	.07	.07	.08	.09	.11	.12	.14	.17	.19	.22	.24	.27	.30
	264	232	203	177	153	133	114	101	092	087	086	089	096	107	121	139	161	186	221	253	288	325	364	405
30	.21	.19	.16	.14	.13	.11	.10	.09	.08	.08	.08	.08	.09	.09	.11	.12	.14	.15	.18	.20	.23	.26	.29	.32
	280	249	220	193	170	150	130	118	109	104	103	106	113	124	139	157	179	204	239	271	306	343	382	423
45	.22	.20	.17	.16	.14	.12	.11	.10	.09	.09	.09	.09	.10	.11	.12	.13	.15	.17	.19	.22	.24	.27	.30	.33
	295	263	233	207	184	163	144	131	123	118	118	121	128	139	154	172	195	220	255	287	322	359	398	438
1100	.23	.20	.18	.16	.15	.13	.12	.11	.10	.10	.10	.10	.11	.11	.13	.14	.16	.18	.20	.23	.25	.28	.31	.34
	306	274	245	218	195	175	155	143	135	130	130	133	140	152	167	185	208	233	268	300	335	372	411	451
15	.23	.21	.19	.17	.15	.14	.12	.11	.11	.11	.11	.11	.11	.12	.13	.15	.16	.18	.21	.23	.26	.29	.31	.34
	315	283	254	227	203	183	164	152	144	139	139	143	150	162	177	196	218	244	278	311	345	382	421	461
30	.24	.22	.19	.17	.16	.14	.13	.12	.11	.11	.11	.11	.12	.13	.14	.15	.17	.19	.22	.24	.26	.29	.32	.35
	322	289	260	233	210	190	170	158	150	146	146	150	157	169	184	203	226	251	286	318	353	390	428	468
45	.24	.22	.20	.18	.16	.15	.13	.12	.12	.11	.11	.12	.12	.13	.14	.16	.17	.19	.22	.24	.27	.30	.32	.35
	325	293	263	236	213	193	174	162	154	150	150	154	162	174	189	208	231	257	291	324	358	395	433	473
1200	.24	.22	.20	.18	.16	.15	.13	.12	.12	.11	.12	.12	.12	.13	.15	.16	.18	.20	.22	.24	.27	.30	.32	.35
	326	293	264	237	214	194	175	163	155	152	152	156	164	176	192	211	233	259	294	325	360	397	435	474
15	.24	.22	.20	.18	.16	.14	.13	.12	.12	.11	.11	.12	.12	.13	.14	.16	.18	.20	.22	.24	.27	.30	.32	.35
	324	291	262	235	212	192	173	162	154	151	151	155	164	176	191	211	233	259	294	326	360	396	434	473
30	.24	.21	.19	.17	.16	.14	.13	.12	.11	.11	.11	.12	.12	.13	.14	.16	.17	.19	.22	.24	.27	.29	.32	.35
	319	287	257	230	207	188	169	158	150	147	147	152	160	173	188	208	230	256	291	322	356	392	430	469
45	.23	.21	.19	.17	.15	.14	.12	.11	.11	.11	.11	.11	.12	.13	.14	.15	.17	.19	.21	.24	.26	.29	.32	.34
	312	279	249	223	200	181	162	151	144	141	141	146	155	167	183	202	225	251	285	317	350	386	423	462

MAY-AUG 60 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300	.22	.20	.18	.16	.14	.13	.12	.11	.10	.10	.10	.10	.11	.12	.13	.15	.16	.18	.21	.23	.26	.28	.31	.34
	301	269	239	213	190	171	153	142	135	132	133	138	146	159	175	194	217	242	277	308	342	377	414	452
15	.21	.19	.17	.15	.13	.12	.11	.10	.09	.09	.09	.10	.10	.11	.12	.14	.16	.17	.20	.22	.25	.27	.30	.33
	288	256	227	200	178	159	141	130	123	120	122	127	135	148	164	183	206	231	266	297	330	365	402	440
30	.20	.18	.16	.14	.12	.11	.10	.09	.08	.08	.08	.09	.09	.10	.11	.13	.15	.16	.19	.21	.24	.26	.29	.32
	273	241	211	185	163	144	126	116	109	107	108	113	122	135	151	170	193	218	252	283	316	351	387	425
45	.19	.17	.14	.13	.11	.10	.08	.08	.07	.07	.07	.07	.08	.09	.10	.12	.13	.15	.18	.20	.22	.25	.28	.30
	255	223	194	168	145	127	109	099	093	090	092	097	106	119	135	154	177	202	236	267	299	334	370	407
1400	.17	.15	.13	.11	.09	.08	.07	.06	.06	.05	.06	.06	.07	.08	.09	.10	.12	.14	.16	.19	.21	.24	.26	.29
	234	202	173	148	126	107	090	080	074	072	074	079	088	101	117	136	159	184	217	248	280	314	350	386
15	.16	.13	.11	.09	.08	.06	.05	.04	.04	.04	.04	.04	.05	.06	.07	.09	.10	.12	.15	.17	.19	.22	.24	.27
	211	180	151	125	104	085	069	059	053	051	053	058	068	080	097	116	138	163	196	226	258	292	327	364
30	.14	.12	.09	.08	.06	.05	.03	.03	.02	.02	.02	.03	.03	.04	.06	.07	.09	.11	.13	.15	.18	.20	.23	.25
	186	155	126	101	079	061	045	036	030	028	030	036	045	058	074	093	115	140	173	203	234	268	303	338
45	.12	.10	.07	.06	.04	.03	.01	.01	.00	.00	.00	.01	.02	.03	.04	.05	.07	.09	.11	.13	.16	.18	.21	.23
	159	127	099	074	053	035	019	010	005	003	005	011	020	033	049	068	090	115	147	177	208	241	276	311
1500	.10	.07	.05	.03	.02	.01	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.05	.07	.09	.11	.14	.16	.18	.21
	129	098	070	046	025	007	000	000	000	000	000	000	000	006	022	041	063	088	120	149	180	213	246	281
15	.07	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.07	.09	.11	.14	.16	.19
	098	067	039	015	000	000	000	000	000	000	000	000	000	000	000	013	034	058	090	119	150	182	215	250
30	.05	.03	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.09	.11	.14	.16
	065	034	007	000	000	000	000	000	000	000	000	000	000	000	000	000	003	027	059	087	118	149	182	216
45	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.09	.11	.14
	030	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026	054	084	115	148	181

MAY-AUG 60 S TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	MAY						JUN						JUL						AUG					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
00		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.11
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	019	048	079	111	144
15		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.06	.08
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011	042	073	106
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003	034	067
45		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02
		000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	026

MAY-AUG 60 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003	003	000	000
0300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.02	.02	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	006	019	028	033	032	028	019
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.04	.04	.04	.05	.04	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	021	038	051	060	064	064	059	050
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.04	.05	.06	.07	.07	.07	.07	.06
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	010	035	056	073	085	091	096	097	092	082
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.08	.09	.09	.09	.09	.09	.08
	000	000	000	000	000	000	000	000	000	000	000	000	000	019	047	072	092	109	121	128	133	132	126	117
0400	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.08	.09	.10	.11	.12	.12	.12	.12	.11
	000	000	000	000	000	000	000	000	000	000	000	000	027	058	086	110	130	146	158	165	169	168	162	152
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.09	.11	.12	.13	.14	.14	.15	.15	.14	.13
	000	000	000	000	000	000	000	000	000	000	000	026	067	098	125	149	169	185	197	201	207	206	200	190
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.10	.12	.14	.15	.16	.17	.17	.17	.17	.17	.16
	000	000	000	000	000	000	000	000	000	000	030	067	108	139	166	190	209	225	236	243	246	244	238	228
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.13	.15	.17	.18	.19	.20	.20	.20	.20	.20	.19
	000	000	000	000	000	000	000	000	000	033	072	109	150	181	208	231	250	266	277	284	285	284	278	268

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0500	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.08	.11	.14	.16	.18	.20	.21	.22	.23	.23	.23	.23	.23	.22
	000	000	000	000	000	000	000	000	035	077	116	153	193	223	250	273	292	307	318	325	327	325	319	309
15	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.14	.17	.19	.21	.23	.24	.25	.26	.26	.26	.26	.26	.25
	000	000	000	000	000	000	000	037	079	121	160	196	236	266	293	316	335	349	360	365	369	367	360	350
30	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.17	.20	.22	.24	.26	.27	.28	.29	.29	.29	.29	.28	.28
	000	000	000	000	000	000	037	081	124	165	204	240	280	310	336	359	377	392	402	409	411	408	402	392
45	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.18	.21	.23	.25	.27	.29	.30	.31	.32	.32	.32	.32	.31	.31
	000	000	000	000	000	037	082	126	168	209	248	285	324	354	380	402	420	435	445	451	453	451	444	434
0600	.00	.00	.00	.00	.03	.06	.09	.12	.16	.18	.21	.24	.26	.28	.30	.32	.33	.34	.35	.35	.35	.35	.34	.34
	000	000	000	000	036	081	126	170	213	254	293	329	369	397	423	445	463	478	488	494	496	493	487	477
15	.00	.00	.00	.03	.06	.09	.13	.16	.19	.22	.24	.27	.30	.32	.33	.35	.36	.37	.38	.38	.38	.38	.37	.37
	000	000	000	035	080	126	171	215	258	298	337	373	412	441	467	488	506	520	530	535	538	536	529	519
30	.00	.00	.03	.06	.09	.12	.16	.19	.22	.25	.27	.30	.33	.35	.36	.38	.39	.40	.41	.41	.41	.41	.40	.40
	000	000	033	079	125	170	215	259	302	342	381	416	455	484	509	531	549	563	573	578	580	578	572	562
45	.00	.02	.06	.09	.12	.16	.19	.22	.25	.28	.31	.33	.36	.38	.39	.41	.42	.43	.44	.44	.44	.44	.43	.43
	000	032	077	122	168	214	259	303	345	386	424	459	498	527	552	573	591	605	614	620	622	620	614	604
0700	.02	.06	.09	.12	.16	.19	.22	.25	.28	.31	.34	.36	.39	.41	.42	.44	.45	.46	.47	.47	.47	.47	.46	.46
	031	075	120	165	211	257	302	346	388	428	466	502	540	569	594	615	632	646	656	661	663	661	655	645
15	.05	.09	.12	.15	.19	.22	.25	.28	.31	.34	.37	.39	.42	.44	.45	.47	.48	.49	.49	.50	.50	.50	.49	.49
	073	117	162	208	253	299	344	388	430	470	508	543	581	609	634	655	673	686	696	702	704	702	696	686
30	.08	.12	.15	.18	.22	.25	.28	.31	.34	.37	.40	.42	.45	.47	.48	.50	.51	.52	.52	.53	.53	.52	.52	.51
	114	158	203	249	295	340	385	428	470	510	548	583	621	649	674	695	712	726	735	741	743	741	735	726
45	.11	.15	.18	.21	.25	.28	.31	.34	.37	.40	.42	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55	.55	.54
	154	198	243	289	334	360	425	468	510	550	587	622	660	688	712	733	750	764	774	779	781	780	774	765

SEP-DEC 60 S TABLE 8-1 SOLAR PARAMETERS COS Z

XO (W/M**2.)

** SIGNIFIES COS Z =1.

ADD 1000 TO VALUES PRECEDED BY *

MST	SEP 5	SEP 10	SEP 15	SEP 20	SEP 25	SEP 30	OCT 5	OCT 10	OCT 15	OCT 20	OCT 25	OCT 30	NOV 5	NOV 10	NOV 15	NOV 20	NOV 25	NOV 30	DEC 5	DEC 10	DEC 15	DEC 20	DEC 25	DEC 30
0800	.14	.18	.21	.24	.27	.31	.34	.37	.40	.43	.45	.47	.50	.52	.54	.55	.56	.57	.58	.59	.59	.58	.57	.57
	192	236	282	327	373	418	463	506	548	587	625	659	697	729	749	770	787	801	810	815	818	817	812	803
15	.17	.20	.24	.27	.30	.32	.36	.40	.42	.45	.48	.50	.53	.54	.56	.57	.59	.59	.60	.60	.60	.60	.60	.59
	229	273	319	364	410	455	500	543	584	624	661	695	733	760	785	805	823	836	846	852	854	853	848	839
30	.20	.23	.26	.29	.33	.36	.39	.42	.45	.48	.50	.53	.55	.57	.58	.60	.61	.62	.62	.63	.63	.63	.62	.62
	265	309	354	400	445	490	534	577	619	658	695	729	766	794	818	839	856	870	880	885	886	887	882	874
45	.22	.25	.29	.32	.35	.38	.41	.44	.47	.50	.52	.55	.57	.59	.61	.62	.63	.64	.65	.66	.65	.65	.65	.64
	298	343	388	433	479	523	568	610	651	691	727	761	798	826	850	871	888	902	911	916	920	920	915	907
0900	.25	.28	.31	.34	.37	.41	.44	.47	.50	.52	.55	.57	.59	.61	.63	.64	.65	.66	.67	.68	.67	.67	.67	.66
	330	374	419	465	510	555	599	641	682	721	757	791	828	856	880	901	918	931	942	948	951	950	946	939
15	.27	.30	.33	.36	.40	.43	.46	.49	.52	.54	.57	.59	.61	.63	.65	.66	.67	.68	.69	.69	.69	.69	.69	.68
	360	404	449	494	539	584	627	670	710	749	785	819	856	883	907	928	945	959	969	976	979	979	975	968
30	.29	.32	.35	.38	.42	.45	.48	.51	.53	.56	.59	.61	.63	.65	.67	.68	.69	.70	.71	.71	.71	.71	.71	.70
	387	431	476	521	566	610	654	696	736	775	811	845	881	909	933	954	971	985	995	*002	*006	*006	*002	995
45	.31	.34	.37	.40	.43	.46	.49	.52	.55	.58	.60	.62	.65	.67	.68	.70	.71	.72	.72	.73	.73	.73	.73	.72
	413	457	501	546	591	635	678	720	760	799	834	868	905	932	956	977	994	*008	*019	*025	*030	*030	*027	*021
1000	.32	.36	.39	.42	.45	.48	.51	.54	.57	.59	.62	.64	.66	.68	.70	.71	.72	.73	.74	.74	.74	.74	.74	.74
	436	479	524	568	613	657	700	741	781	819	855	889	925	952	976	997	*015	*029	*040	*047	*051	*052	*049	*043
15	.34	.37	.40	.43	.46	.49	.52	.55	.58	.61	.63	.65	.68	.69	.71	.72	.74	.74	.75	.76	.76	.76	.76	.75
	456	500	544	588	632	676	719	760	800	838	873	907	943	970	994	*015	*033	*047	*059	*065	*071	*072	*069	*064
30	.35	.38	.41	.45	.48	.51	.54	.56	.59	.62	.64	.66	.68	.71	.72	.73	.75	.76	.76	.77	.77	.77	.77	.76
	474	517	561	605	649	693	735	776	816	853	889	922	959	985	*010	*031	*049	*063	*075	*083	*087	*089	*087	*082
45	.36	.39	.43	.46	.49	.52	.55	.57	.60	.63	.65	.67	.70	.71	.73	.74	.76	.76	.77	.78	.78	.78	.78	.78
	489	532	576	620	663	706	748	789	829	866	901	935	971	998	*022	*043	*062	*077	*088	*097	*102	*103	*102	*097

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z x0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1100	.37	.40	.43	.46	.50	.53	.55	.58	.61	.63	.66	.68	.70	.72	.74	.75	.76	.77	.78	.78	.79	.79	.79	.78
	502	544	588	631	675	717	759	800	839	876	911	944	931	008	032	054	072	087	*099	*108	*113	*115	*114	*110
15	.38	.41	.44	.47	.50	.53	.56	.59	.61	.64	.66	.68	.71	.73	.74	.76	.77	.78	.79	.79	.79	.80	.79	.79
	511	554	597	640	683	726	767	807	846	883	918	951	987	015	039	061	079	095	*107	*115	*122	*125	*124	*120
30	.38	.41	.45	.48	.51	.53	.56	.59	.62	.64	.67	.69	.71	.73	.75	.76	.77	.78	.79	.79	.80	.80	.80	.80
	518	560	603	646	689	731	772	812	851	888	923	955	992	019	044	065	084	100	*112	*122	*128	*131	*131	*128
45	.39	.42	.45	.48	.51	.54	.56	.59	.62	.64	.67	.69	.71	.73	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80
	522	564	607	649	691	733	774	814	852	889	924	957	993	020	045	067	086	102	*115	*125	*131	*135	*135	*132
1200	.39	.42	.45	.48	.51	.54	.56	.59	.62	.64	.67	.69	.71	.73	.75	.76	.77	.78	.79	.80	.80	.80	.80	.80
	523	565	607	649	691	733	773	813	851	887	922	955	991	019	044	066	085	101	*115	*125	*132	*136	*137	*134
15	.39	.42	.45	.48	.51	.53	.56	.59	.61	.64	.66	.68	.71	.73	.74	.76	.77	.78	.79	.80	.80	.80	.80	.80
	522	563	605	646	688	729	769	809	847	883	919	950	987	014	039	062	081	098	*112	*122	*130	*134	*135	*133
30	.38	.41	.44	.47	.50	.53	.56	.58	.61	.63	.66	.68	.70	.72	.74	.75	.76	.78	.78	.79	.80	.80	.80	.80
	517	558	599	641	682	723	763	802	839	876	910	943	979	007	032	055	075	092	*106	*117	*125	*129	*131	*129
45	.38	.41	.44	.47	.49	.52	.55	.58	.60	.63	.65	.67	.70	.71	.73	.75	.76	.77	.78	.79	.79	.79	.79	.79
	510	550	591	632	673	713	753	792	829	865	900	932	969	997	022	045	065	083	*097	*109	*117	*122	*124	*123
1300	.37	.40	.43	.46	.49	.51	.54	.57	.59	.62	.64	.66	.68	.70	.72	.74	.75	.76	.77	.78	.78	.79	.79	.79
	500	540	580	621	661	701	741	779	816	852	887	919	956	984	010	033	053	071	*086	*098	*107	*112	*114	*114
15	.36	.39	.42	.45	.47	.50	.53	.56	.58	.61	.63	.65	.67	.69	.71	.73	.74	.75	.76	.77	.77	.78	.78	.78
	487	526	566	607	647	686	725	764	801	837	871	904	940	968	994	018	039	057	*072	*081	*093	*099	*102	*102
30	.35	.38	.41	.43	.46	.49	.52	.54	.57	.59	.62	.64	.66	.68	.70	.71	.73	.74	.75	.76	.77	.77	.77	.77
	471	510	550	590	629	669	707	745	782	818	852	885	922	950	976	000	021	040	*055	*068	*078	*084	*087	*087
45	.34	.36	.39	.42	.45	.47	.50	.53	.55	.58	.60	.62	.65	.67	.68	.70	.71	.72	.74	.74	.75	.75	.76	.76
	453	491	531	570	609	648	687	725	761	797	831	864	901	929	956	980	001	020	*036	*049	*059	*066	*070	*070

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1400	.32	.35	.38	.40	.43	.46	.48	.51	.54	.56	.58	.60	.63	.65	.67	.68	.70	.71	.72	.73	.74	.74	.74	.74
	432	470	509	548	587	626	664	701	738	773	808	840	877	906	933	957	979	998	*015	*028	*039	*046	*050	*050
15	.30	.33	.36	.39	.41	.44	.47	.49	.52	.54	.56	.59	.61	.63	.65	.66	.68	.69	.70	.71	.72	.72	.73	.73
	408	446	485	523	562	600	638	675	712	747	782	814	852	881	908	932	954	974	991	*005	*015	*023	*027	*028
30	.28	.31	.34	.37	.39	.42	.45	.47	.50	.52	.54	.57	.59	.61	.63	.65	.66	.67	.68	.69	.70	.71	.71	.71
	383	420	458	496	535	573	610	647	684	719	753	786	823	853	880	905	927	947	965	979	990	998	*002	*004
45	.26	.29	.32	.34	.37	.40	.42	.45	.47	.50	.52	.54	.57	.59	.61	.62	.64	.65	.66	.67	.68	.69	.69	.69
	355	392	429	467	505	543	580	617	653	689	723	756	793	823	850	875	898	919	936	951	962	971	976	977
1500	.24	.27	.29	.32	.35	.37	.40	.43	.45	.47	.50	.52	.55	.57	.58	.60	.62	.63	.64	.65	.66	.67	.67	.67
	325	361	398	436	473	511	548	585	621	656	690	723	761	791	818	844	867	888	906	921	933	941	947	948
15	.22	.24	.27	.30	.32	.35	.38	.40	.43	.45	.47	.50	.52	.54	.56	.58	.59	.61	.62	.63	.64	.64	.65	.65
	293	329	365	403	440	477	514	550	586	621	656	689	727	757	785	811	834	855	874	889	901	910	916	917
30	.19	.22	.24	.27	.30	.32	.35	.37	.40	.42	.45	.47	.50	.52	.54	.55	.57	.58	.60	.61	.61	.62	.62	.63
	259	294	331	367	404	441	478	514	550	585	620	653	691	721	749	776	800	821	840	855	868	877	883	885
45	.17	.19	.22	.24	.27	.30	.32	.35	.37	.40	.42	.44	.47	.49	.51	.53	.54	.56	.57	.58	.59	.60	.60	.60
	223	258	294	330	367	403	440	476	512	547	582	615	654	684	712	739	763	785	804	820	833	842	848	851
1600	.14	.16	.19	.22	.24	.27	.29	.32	.34	.37	.39	.41	.44	.46	.48	.50	.52	.53	.54	.55	.56	.57	.57	.58
	185	220	256	292	328	365	401	437	473	508	542	576	615	645	674	701	725	747	767	783	796	806	812	815
15	.11	.13	.16	.19	.21	.24	.26	.29	.31	.34	.36	.39	.41	.43	.45	.47	.49	.50	.52	.53	.54	.54	.55	.55
	147	181	217	252	288	324	360	396	432	467	502	536	574	605	634	662	686	709	728	745	758	768	775	777
30	.08	.10	.13	.16	.18	.21	.23	.26	.28	.31	.33	.36	.38	.40	.42	.44	.46	.48	.49	.50	.51	.52	.52	.52
	107	141	176	211	247	283	319	355	390	426	460	494	533	564	594	621	646	669	689	705	719	729	736	739
45	.05	.07	.10	.12	.15	.18	.20	.23	.25	.28	.30	.33	.35	.37	.39	.41	.43	.45	.46	.47	.48	.49	.49	.49
	066	100	134	169	204	240	276	312	348	383	418	452	491	522	552	580	605	628	648	663	679	689	696	699

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1700	.02	.04	.07	.09	.12	.14	.17	.20	.22	.25	.27	.29	.32	.34	.36	.38	.40	.42	.43	.44	.45	.46	.46	.47
	024	057	091	126	161	197	233	268	304	339	374	409	448	480	510	538	563	587	607	624	638	649	655	658
15	.00	.01	.04	.06	.09	.11	.14	.16	.19	.21	.24	.26	.29	.31	.33	.35	.37	.39	.40	.41	.42	.43	.43	.44
	000	014	048	083	118	153	189	224	260	295	331	365	405	437	467	495	521	544	565	583	597	607	614	617
30	.00	.00	.00	.03	.05	.08	.11	.13	.16	.18	.21	.23	.26	.28	.30	.32	.34	.36	.37	.38	.39	.40	.40	.41
	000	000	004	038	073	109	144	180	216	251	286	321	361	393	423	452	478	502	523	540	555	565	572	575
45	.00	.00	.00	.00	.02	.05	.07	.10	.12	.15	.17	.20	.23	.25	.27	.29	.31	.33	.34	.35	.36	.37	.37	.38
	000	000	000	000	029	064	099	135	171	207	242	277	317	348	380	409	435	459	480	496	512	523	530	533
1800	.00	.00	.00	.00	.00	.01	.04	.07	.09	.12	.14	.17	.20	.22	.24	.26	.28	.30	.31	.32	.33	.34	.34	.35
	000	000	000	000	000	019	055	090	126	162	198	232	273	305	336	365	392	416	437	456	470	481	487	490
15	.00	.00	.00	.00	.00	.00	.01	.03	.06	.09	.11	.14	.16	.19	.21	.23	.25	.27	.28	.29	.30	.31	.31	.32
	000	000	000	000	000	000	010	046	082	118	153	188	229	262	293	322	349	373	395	413	427	438	445	448
30	.00	.00	.00	.00	.00	.00	.00	.00	.03	.05	.08	.10	.13	.16	.18	.20	.22	.24	.25	.26	.27	.28	.29	.29
	000	000	000	000	000	000	000	002	038	074	110	145	186	219	250	279	307	331	352	371	385	396	403	405
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.07	.10	.13	.15	.17	.19	.21	.22	.23	.24	.25	.26	.26
	000	000	000	000	000	000	000	000	000	030	066	102	143	176	208	237	264	289	311	329	343	354	361	363
1900	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.07	.10	.12	.14	.16	.18	.19	.20	.21	.22	.23	.23
	000	000	000	000	000	000	000	000	000	000	024	059	101	134	166	196	223	248	269	288	303	313	319	322
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.09	.11	.13	.15	.16	.18	.19	.19	.20	.20
	000	000	000	000	000	000	000	000	000	000	000	018	060	093	125	155	183	207	229	247	262	272	279	281
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.06	.08	.10	.12	.13	.15	.16	.16	.17	.17
	000	000	000	000	000	000	000	000	000	000	000	000	020	054	086	116	143	168	190	208	222	233	239	241
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	01	.03	.06	.08	.09	.11	.12	.13	.14	.14	.14
	000	000	000	000	000	000	000	000	000	000	000	000	000	015	047	077	105	130	151	170	184	194	200	202

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
2000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.03	.05	.07	.08	.09	.10	.11	.12	.12
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	041	068	093	115	133	147	157	163	164
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.04	.06	.07	.08	.09	.09	.09
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	005	033	058	079	097	111	121	127	128
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.03	.05	.06	.06	.07	.07
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	024	045	063	077	087	092	093
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.03	.04	.04	.04
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	014	031	045	054	059	060
2100	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.02	.02	.02
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	001	014	023	028	028
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

SEP-DEC 60 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIFES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0000	.23	.22	.21	.20	.18	.16	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	320	312	297	277	253	226	194	153	114	074	031	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.23	.22	.21	.20	.18	.16	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	321	312	297	277	253	226	194	152	114	073	031	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.23	.22	.21	.20	.18	.16	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	322	313	298	278	254	226	195	153	114	074	031	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.23	.22	.21	.20	.18	.16	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	324	315	300	280	256	228	196	154	116	075	033	000	000	000	000	000	000	000	000	000	000	000	000	000
0100	.23	.23	.21	.20	.18	.16	.14	.11	.08	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	327	318	303	283	259	231	199	157	119	078	035	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.23	.23	.22	.20	.19	.17	.14	.11	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	331	322	306	286	262	234	203	160	122	082	039	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.24	.23	.22	.21	.19	.17	.15	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	336	327	311	291	267	239	207	165	127	086	044	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.24	.24	.22	.21	.19	.17	.15	.12	.09	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	342	333	317	297	272	244	213	170	132	092	049	005	000	000	000	000	000	000	000	000	000	000	000	000
0200	.25	.24	.23	.21	.20	.18	.16	.13	.10	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	349	339	324	303	279	251	219	177	139	098	056	012	000	000	000	000	000	000	000	000	000	000	000	000
15	.25	.25	.23	.22	.20	.18	.16	.13	.10	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	357	347	331	311	286	258	226	184	146	105	063	019	000	000	000	000	000	000	000	000	000	000	000	000
30	.26	.25	.24	.23	.21	.19	.17	.14	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	365	355	339	319	294	266	234	192	154	114	071	027	000	000	000	000	000	000	000	000	000	000	000	000
45	.26	.26	.25	.23	.22	.20	.17	.14	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	374	365	348	328	303	275	243	201	163	123	080	037	000	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0300	.27	.27	.25	.24	.22	.20	.18	.15	.12	.10	.07	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	384	374	358	338	313	285	253	211	173	133	090	047	000	000	000	000	000	000	000	000	000	000	000	000
15	.28	.27	.26	.25	.23	.21	.19	.16	.13	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	395	385	369	348	324	295	264	222	184	143	101	057	000	000	000	000	000	000	000	000	000	000	000	000
30	.29	.28	.27	.25	.24	.22	.20	.17	.14	.11	.08	.05	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	406	396	380	359	335	307	275	233	195	155	113	069	000	000	000	000	000	000	000	000	000	000	000	000
45	.30	.29	.28	.26	.25	.23	.20	.17	.15	.12	.09	.06	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	418	408	392	371	347	319	287	245	207	167	125	081	009	000	000	000	000	000	000	000	000	000	000	000
0400	.30	.30	.29	.27	.25	.23	.21	.18	.16	.13	.10	.07	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	431	421	404	384	359	331	299	257	219	179	137	094	022	000	000	000	000	000	000	000	000	000	000	000
15	.31	.31	.30	.28	.26	.24	.22	.19	.17	.14	.11	.08	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	444	434	417	397	372	344	312	270	233	193	151	107	036	000	000	000	000	000	000	000	000	000	000	000
30	.32	.32	.30	.29	.27	.25	.23	.20	.18	.15	.12	.09	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	457	447	431	410	386	357	326	264	246	206	164	121	050	004	000	000	000	000	000	000	000	000	000	000
45	.33	.33	.31	.30	.28	.26	.24	.21	.19	.16	.13	.10	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	471	461	444	424	399	371	340	298	260	220	179	135	064	019	000	000	000	000	000	000	000	000	000	000
0500	.34	.34	.32	.31	.29	.27	.25	.22	.20	.17	.14	.11	.06	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	485	475	458	438	414	386	354	312	275	235	193	150	079	033	000	000	000	000	000	000	000	000	000	000
15	.35	.35	.33	.32	.30	.28	.26	.23	.21	.18	.15	.12	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	499	489	473	452	428	400	369	327	290	250	208	165	094	049	003	000	000	000	000	000	000	000	000	000
30	.36	.36	.34	.33	.31	.29	.27	.24	.22	.19	.16	.13	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	514	504	487	467	443	415	384	342	305	265	223	180	109	064	018	000	000	000	000	000	000	000	000	000
45	.37	.37	.36	.34	.32	.30	.28	.25	.23	.20	.17	.14	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
	528	518	502	482	458	430	399	357	320	280	239	196	125	080	034	000	000	000	000	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB						MAR						APR				
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0600	.38	.38	.37	.35	.33	.32	.29	.27	.24	.21	.18	.15	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
	543	533	517	497	473	445	414	373	335	296	254	211	140	095	050	004	000	000	000	000	000	000	000	000
15	.39	.39	.38	.36	.35	.33	.30	.28	.25	.22	.19	.16	.11	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00	.00
	558	548	532	512	488	460	429	388	351	311	270	227	156	111	065	020	000	000	000	000	000	000	000	000
30	.41	.40	.39	.37	.36	.34	.32	.29	.26	.23	.20	.17	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00
	573	563	547	527	503	475	444	403	366	327	286	243	172	127	081	036	000	000	000	000	000	000	000	000
45	.42	.41	.40	.38	.37	.35	.33	.30	.27	.24	.22	.19	.14	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00
	587	578	562	542	518	490	460	419	382	342	301	258	187	142	097	051	006	000	000	000	000	000	000	000
0700	.43	.42	.41	.39	.38	.36	.34	.31	.28	.26	.23	.20	.15	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00	.00
	602	592	576	556	533	505	475	434	397	358	317	274	203	158	112	066	021	000	000	000	000	000	000	000
15	.44	.43	.42	.40	.39	.37	.35	.32	.29	.27	.24	.21	.16	.13	.09	.06	.03	.00	.00	.00	.00	.00	.00	.00
	616	606	591	571	547	520	489	449	412	373	332	289	218	173	127	082	036	000	000	000	000	000	000	000
30	.45	.44	.43	.41	.40	.38	.36	.33	.30	.28	.25	.22	.17	.14	.10	.07	.04	.00	.00	.00	.00	.00	.00	.00
	630	620	605	585	562	534	504	463	427	388	347	304	233	188	142	097	051	006	000	000	000	000	000	000
45	.46	.45	.44	.42	.41	.39	.37	.34	.31	.29	.26	.23	.18	.15	.11	.08	.05	.02	.00	.00	.00	.00	.00	.00
	644	634	619	599	576	549	518	478	441	402	361	319	248	203	157	111	065	020	000	000	000	000	000	000
0800	.46	.46	.45	.43	.42	.40	.38	.35	.32	.30	.27	.24	.19	.16	.12	.09	.06	.03	.00	.00	.00	.00	.00	.00
	657	647	632	612	589	562	532	492	455	416	375	333	262	217	171	125	079	034	000	000	000	000	000	000
15	.47	.47	.46	.44	.43	.41	.39	.36	.33	.31	.28	.25	.20	.17	.13	.10	.07	.04	.00	.00	.00	.00	.00	.00
	669	660	645	625	602	576	545	505	469	430	389	347	276	230	185	139	093	048	000	000	000	000	000	000
30	.48	.48	.46	.45	.44	.42	.40	.37	.34	.32	.29	.26	.21	.18	.14	.11	.08	.04	.01	.00	.00	.00	.00	.00
	682	672	657	638	615	588	558	518	482	443	402	360	289	244	198	152	106	061	007	000	000	000	000	000
45	.49	.48	.47	.46	.44	.43	.41	.38	.35	.33	.30	.27	.22	.19	.15	.12	.09	.05	.01	.00	.00	.00	.00	.00
	693	684	669	650	627	600	571	531	494	456	415	372	302	256	210	164	118	073	019	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
0900	.50	.49	.48	.47	.45	.43	.41	.39	.36	.33	.31	.28	.23	.19	.16	.13	.09	.06	.02	.00	.00	.00	.00	.00
	704	695	680	661	638	612	582	543	506	468	427	385	314	268	222	176	130	084	031	000	000	000	000	000
15	.51	.50	.49	.48	.46	.44	.42	.39	.37	.34	.31	.28	.23	.20	.17	.14	.10	.07	.03	.00	.00	.00	.00	.00
	714	705	691	672	649	623	593	554	518	479	438	396	325	280	233	187	141	095	041	000	000	000	000	000
30	.51	.51	.50	.48	.47	.45	.43	.40	.38	.35	.32	.29	.24	.21	.18	.14	.11	.08	.04	.01	.00	.00	.00	.00
	724	715	700	682	659	633	604	564	528	490	449	407	335	290	244	198	151	105	051	008	000	000	000	000
45	.52	.51	.50	.49	.47	.46	.44	.41	.38	.36	.33	.30	.25	.22	.18	.15	.12	.08	.04	.01	.00	.00	.00	.00
	733	724	710	691	669	643	613	574	538	499	459	416	345	300	254	207	161	115	061	017	000	000	000	000
1000	.52	.52	.51	.49	.48	.46	.44	.41	.39	.36	.33	.30	.26	.22	.19	.16	.12	.09	.05	.02	.00	.00	.00	.00
	741	732	718	699	677	651	622	583	547	508	468	425	354	309	262	216	169	123	069	025	000	000	000	000
15	.53	.52	.51	.50	.49	.47	.45	.42	.40	.37	.34	.31	.26	.23	.20	.16	.13	.10	.06	.02	.00	.00	.00	.00
	748	739	725	707	685	659	630	591	555	517	476	434	363	317	270	224	177	131	076	032	000	000	000	000
30	.53	.53	.52	.51	.49	.47	.45	.43	.40	.37	.35	.32	.27	.23	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00
	754	746	732	714	692	666	637	598	562	524	483	441	370	324	277	231	184	138	083	039	000	000	000	000
45	.54	.53	.52	.51	.49	.48	.46	.43	.40	.38	.35	.32	.27	.24	.21	.17	.14	.10	.07	.03	.00	.00	.00	.00
	760	751	737	720	698	672	643	604	569	530	490	447	376	330	284	237	190	143	089	044	001	000	000	000
1100	.54	.53	.52	.51	.50	.48	.46	.43	.41	.38	.35	.32	.27	.24	.21	.18	.14	.11	.07	.04	.00	.00	.00	.00
	764	756	742	724	703	677	648	610	574	536	495	453	381	335	289	242	195	148	093	049	006	000	000	000
15	.54	.54	.53	.52	.50	.48	.46	.44	.41	.39	.36	.33	.28	.25	.21	.18	.14	.11	.07	.04	.01	.00	.00	.00
	768	760	746	728	707	682	653	614	578	540	500	457	386	340	293	246	199	152	097	052	009	000	000	000
30	.54	.54	.53	.52	.50	.49	.47	.44	.41	.39	.36	.33	.28	.25	.21	.18	.15	.11	.07	.04	.01	.00	.00	.00
	770	762	749	731	710	685	656	617	582	544	503	461	389	343	296	249	202	155	100	055	012	000	000	000
45	.55	.54	.53	.52	.50	.49	.47	.44	.42	.39	.36	.33	.28	.25	.22	.18	.15	.11	.07	.04	.01	.00	.00	.00
	772	764	751	733	712	687	658	620	584	546	506	463	392	345	298	251	204	157	101	057	013	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1200	.55	.54	.53	.52	.51	.49	.47	.44	.42	.39	.36	.33	.26	.25	.22	.18	.15	.12	.08	.04	.01	.00	.00	.00
	773	765	752	735	713	688	660	621	586	548	507	464	393	347	300	252	205	158	102	057	014	000	000	000
15	.55	.54	.53	.52	.51	.49	.47	.44	.42	.39	.36	.33	.28	.25	.22	.18	.15	.12	.07	.04	.01	.00	.00	.00
	772	765	752	735	714	689	660	622	586	548	507	465	393	347	300	252	205	157	102	057	013	000	000	000
30	.55	.54	.53	.52	.50	.49	.47	.44	.42	.39	.36	.33	.28	.25	.22	.18	.15	.11	.07	.04	.01	.00	.00	.00
	771	764	751	734	713	688	660	621	586	548	507	464	392	346	299	251	204	156	101	055	012	000	000	000
45	.54	.54	.53	.52	.50	.49	.47	.44	.42	.39	.36	.33	.28	.25	.21	.18	.15	.11	.07	.04	.01	.00	.00	.00
	769	762	749	732	711	686	658	620	584	546	505	463	391	344	297	249	201	154	098	053	009	000	000	000
1300	.54	.54	.53	.52	.50	.48	.47	.44	.41	.39	.36	.33	.26	.25	.21	.18	.14	.11	.07	.04	.00	.00	.00	.00
	766	759	746	729	708	684	655	617	582	543	503	460	388	341	294	246	198	151	095	049	006	000	000	000
15	.54	.53	.52	.51	.50	.48	.46	.44	.41	.39	.36	.33	.28	.24	.21	.18	.14	.11	.07	.03	.00	.00	.00	.00
	762	755	742	725	705	680	652	613	578	540	499	456	384	337	290	242	194	147	091	045	001	000	000	000
30	.54	.53	.52	.51	.50	.48	.46	.43	.41	.38	.35	.32	.27	.24	.21	.17	.14	.10	.06	.03	.00	.00	.00	.00
	757	750	737	721	700	675	647	609	573	535	495	452	379	333	285	237	189	141	085	040	000	000	000	000
45	.53	.53	.52	.51	.49	.47	.46	.43	.40	.38	.35	.32	.27	.24	.20	.17	.13	.10	.06	.03	.00	.00	.00	.00
	751	744	732	715	694	670	642	603	568	530	489	446	374	327	279	231	183	135	079	034	000	000	000	000
1400	.53	.52	.51	.50	.49	.47	.45	.42	.40	.37	.35	.32	.26	.23	.20	.16	.13	.09	.05	.02	.00	.00	.00	.00
	744	737	725	708	688	663	635	597	562	523	482	439	367	320	272	224	176	128	072	026	000	000	000	000
15	.52	.52	.51	.50	.48	.47	.45	.42	.39	.37	.34	.31	.26	.23	.19	.16	.12	.09	.05	.01	.00	.00	.00	.00
	736	730	717	701	681	656	628	590	554	516	475	432	359	312	265	216	168	120	064	018	000	000	000	000
30	.51	.51	.50	.49	.48	.46	.44	.41	.39	.36	.33	.30	.25	.22	.19	.15	.12	.08	.04	.01	.00	.00	.00	.00
	728	721	709	693	672	648	620	581	546	508	467	424	351	304	256	208	159	112	055	009	000	000	000	000
45	.51	.50	.50	.48	.47	.45	.43	.41	.38	.36	.33	.30	.25	.21	.18	.14	.11	.07	.03	.00	.00	.00	.00	.00
	719	712	700	684	663	639	611	572	537	499	458	414	342	294	247	198	150	102	045	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1500	.50	.50	.49	.48	.46	.45	.43	.40	.38	.35	.32	.29	.24	.21	.17	.14	.10	.07	.03	.00	.00	.00	.00	.00
	709	702	690	674	654	629	601	563	527	489	448	404	332	284	236	188	139	092	035	000	000	000	000	000
15	.49	.49	.48	.47	.46	.44	.42	.39	.37	.34	.31	.28	.23	.20	.16	.13	.09	.06	.02	.00	.00	.00	.00	.00
	698	692	680	663	643	619	591	552	517	478	437	394	321	273	225	177	128	080	024	000	000	000	000	000
30	.49	.48	.47	.46	.45	.43	.41	.38	.36	.33	.30	.27	.22	.19	.15	.12	.09	.05	.01	.00	.00	.00	.00	.00
	687	680	668	652	632	607	579	541	505	467	425	382	303	262	214	165	117	069	012	000	000	000	000	000
45	.48	.47	.46	.45	.44	.42	.40	.38	.35	.32	.30	.27	.21	.18	.15	.11	.08	.04	.00	.00	.00	.00	.00	.00
	675	669	657	640	620	596	567	529	493	455	413	370	297	249	201	153	104	056	000	000	000	000	000	000
1600	.47	.46	.46	.44	.43	.41	.39	.37	.34	.32	.29	.26	.20	.17	.14	.10	.07	.03	.00	.00	.00	.00	.00	.00
	662	656	644	628	608	583	555	516	481	442	401	357	284	236	188	140	091	043	000	000	000	000	000	000
15	.46	.45	.45	.44	.42	.40	.38	.36	.33	.31	.28	.25	.19	.16	.13	.09	.06	.02	.00	.00	.00	.00	.00	.00
	650	643	631	615	595	570	542	503	467	429	387	344	270	223	175	126	077	029	000	000	000	000	000	000
30	.45	.45	.44	.43	.41	.39	.38	.35	.32	.30	.27	.24	.18	.15	.12	.08	.05	.01	.00	.00	.00	.00	.00	.00
	636	630	618	602	581	557	528	490	454	415	374	330	256	209	161	112	063	015	000	000	000	000	000	000
45	.44	.44	.43	.42	.40	.38	.37	.34	.31	.29	.26	.23	.17	.14	.11	.07	.04	.00	.00	.00	.00	.00	.00	.00
	622	616	604	588	567	543	515	476	440	401	359	316	242	194	146	097	049	001	000	000	000	000	000	000
1700	.43	.43	.42	.41	.39	.37	.36	.33	.30	.28	.25	.22	.16	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00
	608	602	590	574	553	529	500	461	425	386	345	301	227	180	131	083	034	000	000	000	000	000	000	000
15	.42	.42	.41	.40	.38	.36	.34	.32	.29	.27	.24	.21	.15	.12	.08	.05	.01	.00	.00	.00	.00	.00	.00	.00
	594	588	576	559	539	514	486	447	410	371	330	286	212	164	116	067	019	000	000	000	000	000	000	000
30	.41	.41	.40	.39	.37	.35	.33	.31	.28	.25	.23	.19	.14	.11	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00
	579	573	561	545	524	499	471	432	395	356	315	271	197	149	101	052	004	000	000	000	000	000	000	000
45	.40	.39	.39	.38	.36	.34	.32	.30	.27	.24	.21	.18	.13	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00
	565	558	546	530	509	484	456	416	380	341	299	255	181	134	085	037	000	000	000	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY .

MST	DATE																							
	JAN							FEB					MAR						APR					
	1	5	10	15	20	25	30	5	10	15	20	25	5	10	15	20	25	30	5	10	15	20	25	30
1800	.39	.38	.38	.36	.35	.33	.31	.29	.26	.23	.20	.17	.12	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00
	550	543	531	515	494	469	440	401	365	325	284	240	166	118	069	021	000	000	000	000	000	000	000	000
15	.38	.37	.37	.35	.34	.32	.30	.27	.25	.22	.19	.16	.11	.07	.04	.00	.00	.00	.00	.00	.00	.00	.00	.00
	535	529	516	500	479	454	425	386	349	310	268	224	150	102	054	005	000	000	000	000	000	000	000	000
30	.37	.36	.35	.34	.33	.31	.29	.26	.24	.21	.18	.15	.10	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00
	520	514	502	485	464	439	410	370	334	294	252	208	134	086	038	000	000	000	000	000	000	000	000	000
45	.36	.35	.34	.33	.32	.30	.28	.25	.23	.20	.17	.14	.09	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00
	506	499	487	470	449	424	395	355	318	279	237	193	119	071	022	000	000	000	000	000	000	000	000	000
1900	.35	.34	.33	.32	.31	.29	.27	.24	.22	.19	.16	.13	.07	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	491	485	472	455	434	409	380	340	303	264	222	177	103	055	007	000	000	000	000	000	000	000	000	000
15	.34	.33	.32	.31	.30	.28	.26	.23	.21	.18	.15	.12	.06	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	477	470	458	441	420	394	365	325	288	249	206	162	088	040	000	000	000	000	000	000	000	000	000	000
30	.33	.32	.31	.30	.29	.27	.25	.22	.20	.17	.14	.11	.05	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	463	456	444	427	405	380	350	310	273	234	191	147	073	025	000	000	000	000	000	000	000	000	000	000
45	.32	.31	.30	.29	.28	.26	.24	.21	.18	.16	.13	.10	.04	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	450	443	430	413	391	366	336	296	259	219	177	132	058	011	000	000	000	000	000	000	000	000	000	000
2000	.31	.30	.29	.28	.27	.25	.23	.20	.17	.15	.12	.09	.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	436	429	417	399	378	352	322	282	245	205	163	118	044	000	000	000	000	000	000	000	000	000	000	000
15	.30	.29	.29	.27	.26	.24	.22	.19	.17	.14	.11	.08	.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	424	417	404	386	365	339	309	269	231	191	149	104	030	000	000	000	000	000	000	000	000	000	000	000
30	.29	.29	.28	.26	.25	.23	.21	.18	.16	.13	.10	.07	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	412	404	391	374	352	326	296	256	218	178	136	091	017	000	000	000	000	000	000	000	000	000	000	000
45	.28	.28	.27	.26	.24	.22	.20	.17	.15	.12	.09	.06	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	400	393	380	362	340	314	284	243	206	166	123	079	004	000	000	000	000	000	000	000	000	000	000	000

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																																							
	JAN							FEB						MAR										APR																	
	1		5		10		15		20		25		30	5		10		15		20		25		5		10		15		20		25		30							
2100	.28		.27		.26		.25		.23		.21		.19	.16		.14		.11		.09		.05		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	389		382		368		351		328		302		272	231		194		154		111		067		000		000		000		000		000		000		000		000	
15	.27		.26		.25		.24		.23		.21		.19	.16		.13		.10		.07		.04		.00		.00		.00		.00		.00		.00		.00		.00	
	379		371		358		340		318		291		261	220		183		142		100		055		000		000		000		000		000		000		000		000	
30	.26		.26		.25		.23		.22		.20		.18	.15		.12		.09		.06		.03		.00		.00		.00		.00		.00		.00		.00		.00	
	369		362		348		330		307		281		251	210		172		132		089		045		000		000		000		000		000		000		000		000	
45	.26		.25		.24		.23		.21		.19		.17	.14		.12		.09		.06		.03		.00		.00		.00		.00		.00		.00		.00		.00	
	360		353		339		321		298		272		241	200		162		122		079		035		000		000		000		000		000		000		000		000	
2200	.25		.24		.23		.22		.21		.19		.17	.14		.11		.08		.05		.02		.00		.00		.00		.00		.00		.00		.00		.00	
	352		345		331		312		290		263		232	191		153		113		070		026		000		000		000		000		000		000		000		000	
15	.24		.24		.23		.22		.20		.18		.16	.13		.10		.08		.04		.01		.00		.00		.00		.00		.00		.00		.00		.00	
	345		337		323		305		282		255		224	183		145		105		062		017		000		000		000		000		000		000		000		000	
30	.24		.23		.22		.21		.20		.18		.15	.13		.10		.07		.04		.01		.00		.00		.00		.00		.00		.00		.00		.00	
	339		331		317		298		275		248		217	176		138		097		055		010		000		000		000		000		000		000		000		000	
45	.24		.23		.22		.21		.19		.17		.15	.12		.09		.07		.04		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	333		325		311		292		269		242		211	170		132		091		048		004		000		000		000		000		000		000		000		000	
2300	.23		.23		.22		.20		.19		.17		.15	.12		.09		.06		.03		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	329		321		306		287		264		237		206	164		126		086		043		000		000		000		000		000		000		000		000		000	
15	.23		.22		.21		.20		.18		.17		.14	.11		.09		.06		.03		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	325		317		302		283		260		233		202	160		122		081		038		000		000		000		000		000		000		000		000		000	
30	.23		.22		.21		.20		.18		.15		.14	.11		.08		.06		.03		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	323		314		300		280		257		229		198	156		118		078		035		000		000		000		000		000		000		000		000		000	
45	.23		.22		.21		.20		.18		.16		.14	.11		.08		.05		.02		.00		.00		.00		.00		.00		.00		.00		.00		.00	
	321		312		298		278		255		227		196	154		116		075		032		000		000		000		000		000		000		000		000		000	

JAN-APR 80 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1000	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003
1100	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	007
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	013
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015
1200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	015
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	014
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	011

MAY-AUG 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	MAY						JUN						JUL						AUG					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	008
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	003
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000

MAY-AUG 80 S TABLE B-1 SOLAR PARAMETERS COS Z *** SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0000		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.14	.17	.18	.20	.21	.22	.23	.23	.23	.23
		000	000	000	000	000	000	000	000	000	001	044	085	132	168	201	232	258	281	299	313	323	328	326	324
15		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.12	.15	.17	.19	.20	.21	.22	.23	.23	.23	.23
		000	000	000	000	000	000	000	000	000	002	045	086	133	170	203	233	259	282	300	315	325	329	329	324
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.12	.15	.17	.19	.20	.21	.22	.24	.23	.23	.23
		000	000	000	000	000	000	000	000	000	005	048	089	136	172	205	235	262	284	303	318	329	330	330	326
45		.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13	.15	.17	.19	.20	.22	.23	.23	.24	.24	.23
		000	000	000	000	000	000	000	000	000	008	051	093	139	176	209	239	265	287	305	319	328	333	333	328
0100		.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13	.15	.17	.19	.21	.22	.23	.24	.24	.24	.23
		000	000	000	000	000	000	000	000	000	013	056	097	144	180	213	243	269	291	309	323	332	337	336	331
15		.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.13	.16	.18	.20	.21	.22	.23	.24	.24	.24	.24
		000	000	000	000	000	000	000	000	000	018	061	103	149	185	218	248	274	296	314	328	337	341	340	335
30		.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.14	.16	.18	.20	.22	.23	.24	.24	.25	.24	.24
		000	000	000	000	000	000	000	000	000	025	068	109	156	192	225	254	280	302	320	333	342	346	346	340
45		.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.12	.14	.17	.19	.20	.22	.23	.24	.25	.25	.25	.25
		000	000	000	000	000	000	000	000	000	032	075	116	163	199	232	261	287	309	327	340	349	352	352	346
0200		.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.17	.19	.21	.23	.24	.25	.25	.25	.25	.25
		000	000	000	000	000	000	000	000	000	040	083	125	171	207	240	269	295	317	334	347	355	360	359	353
15		.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.15	.18	.20	.22	.23	.24	.25	.25	.26	.26	.26
		000	000	000	000	000	000	000	000	005	049	092	134	180	216	249	278	304	325	342	355	364	367	366	361
30		.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.14	.16	.18	.21	.22	.24	.25	.25	.26	.27	.27	.26
		000	000	000	000	000	000	000	000	014	059	102	143	190	226	258	287	313	334	352	361	373	376	375	369
45		.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.14	.17	.19	.21	.23	.24	.26	.27	.27	.27	.27	.27
		000	000	000	000	000	000	000	000	025	070	113	154	200	236	269	298	323	344	361	374	382	386	384	378

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z XO (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0300		.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.16	.20	.22	.24	.25	.26	.27	.28	.28	.28	.27
		000	000	000	000	000	000	000	000	036	081	124	165	212	247	290	309	334	355	372	385	396	396	394	388
15		.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.18	.19	.21	.23	.25	.26	.27	.27	.28	.29	.29	.28
		000	000	000	000	000	000	000	003	048	093	136	177	226	258	291	320	345	366	383	395	405	407	405	399
30		.00	.00	.00	.00	.00	.00	.00	.01	.04	.08	.11	.14	.17	.19	.22	.24	.25	.27	.28	.29	.29	.30	.29	.29
		000	000	000	000	000	000	000	015	061	106	149	190	236	271	304	332	357	378	395	407	415	418	417	410
45		.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.15	.18	.20	.23	.25	.26	.28	.29	.30	.30	.30	.30	.30
		000	000	000	000	000	000	000	028	074	119	162	203	249	284	316	345	370	391	407	420	427	430	429	422
0400		.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.16	.19	.21	.24	.26	.27	.29	.30	.31	.31	.31	.31	.31
		000	000	000	000	000	000	000	042	088	132	175	216	262	298	330	358	383	404	420	432	440	443	441	435
15		.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.22	.25	.27	.28	.30	.31	.32	.32	.32	.32	.32
		000	000	000	000	000	000	009	056	102	147	190	230	276	312	343	372	397	417	434	446	453	456	454	448
30		.00	.00	.00	.00	.00	.00	.02	.05	.08	.12	.15	.18	.21	.23	.26	.28	.29	.31	.32	.33	.33	.33	.33	.33
		000	000	000	000	000	000	024	070	116	161	204	245	291	326	358	386	411	431	447	459	467	469	463	461
45		.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.16	.19	.22	.24	.27	.29	.30	.32	.33	.34	.34	.34	.34	.34
		000	000	000	000	000	000	036	085	131	176	219	260	305	340	372	400	425	445	461	473	481	483	481	475
0500		.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.17	.20	.23	.25	.28	.30	.31	.33	.34	.35	.36	.35	.35	.35
		000	000	000	000	000	006	054	100	146	191	234	275	320	355	387	415	439	460	476	488	496	497	496	489
15		.00	.00	.00	.00	.00	.02	.05	.08	.12	.15	.18	.21	.24	.27	.29	.31	.32	.34	.35	.36	.36	.36	.36	.36
		000	000	000	000	000	021	069	116	162	206	249	290	335	370	402	430	454	474	490	502	509	512	510	503
30		.00	.00	.00	.00	.00	.03	.06	.10	.13	.16	.19	.22	.25	.28	.30	.32	.33	.35	.36	.37	.37	.37	.37	.37
		000	000	000	000	000	037	084	131	177	222	264	305	351	385	417	445	469	489	505	517	524	526	524	518
45		.00	.00	.00	.00	.00	.04	.07	.11	.14	.17	.20	.23	.26	.29	.31	.33	.34	.36	.37	.38	.38	.38	.38	.38
		000	000	000	000	005	052	100	147	193	237	280	320	366	400	432	460	484	504	520	531	540	541	539	533

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z
xC (A/M**2.)

*** SIGNIFIES COS Z = 1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0600	.00	.00	.00	.00	.02	.05	.08	.12	.15	.18	.21	.24	.27	.30	.32	.34	.36	.37	.38	.39	.39	.39	.39	.39
	000	000	000	000	020	068	115	162	206	253	295	336	381	416	447	475	499	519	535	547	554	556	554	548
15	.00	.00	.00	.00	.03	.06	.10	.13	.16	.19	.22	.25	.29	.31	.33	.35	.37	.38	.39	.40	.40	.40	.40	.40
	000	000	000	000	036	083	131	178	223	268	311	351	396	431	462	490	514	534	549	561	568	571	569	562
30	.00	.00	.00	.00	.04	.07	.11	.14	.17	.21	.24	.26	.30	.32	.34	.36	.38	.39	.40	.41	.41	.41	.41	.41
	000	000	000	004	051	099	148	193	239	283	326	366	411	446	477	505	529	548	564	575	583	585	583	577
45	.00	.00	.00	.01	.05	.08	.12	.15	.18	.22	.25	.27	.31	.33	.35	.37	.39	.40	.41	.42	.42	.42	.42	.42
	000	000	000	019	066	114	161	208	254	298	341	381	426	461	492	519	543	563	579	590	597	600	598	592
0700	.00	.00	.00	.03	.06	.09	.13	.16	.20	.23	.26	.29	.32	.34	.36	.38	.40	.41	.42	.43	.43	.43	.43	.43
	000	000	000	034	081	129	176	223	269	313	356	396	441	475	506	534	557	577	593	604	612	614	612	606
15	.00	.00	.00	.04	.07	.11	.14	.17	.21	.24	.27	.30	.33	.35	.37	.39	.41	.42	.43	.44	.44	.44	.44	.44
	000	000	001	048	096	144	191	238	283	328	370	410	455	489	520	548	572	591	607	618	625	628	626	620
30	.00	.00	.01	.05	.08	.12	.15	.18	.22	.25	.28	.31	.34	.36	.38	.40	.42	.43	.44	.45	.45	.45	.45	.45
	000	000	016	063	110	158	205	252	297	342	384	424	469	503	534	562	585	605	621	632	639	642	640	634
45	.00	.00	.02	.06	.09	.13	.16	.19	.23	.26	.29	.32	.35	.37	.39	.41	.43	.44	.45	.46	.46	.46	.46	.46
	000	000	030	077	124	172	219	266	311	355	399	438	482	516	547	575	599	618	634	645	654	655	654	648
0800	.00	.00	.03	.07	.10	.14	.17	.20	.24	.27	.30	.32	.36	.38	.40	.42	.44	.45	.46	.47	.47	.47	.47	.47
	000	000	013	090	137	185	232	279	324	368	411	451	495	529	560	588	611	631	647	657	665	668	667	661
15	.00	.01	.04	.08	.11	.15	.18	.21	.24	.28	.31	.33	.36	.39	.41	.43	.44	.46	.47	.48	.48	.48	.48	.48
	000	010	056	103	150	198	245	291	337	381	422	463	508	542	572	600	624	643	659	671	678	681	679	673
30	.00	.02	.05	.09	.12	.15	.19	.22	.25	.28	.31	.34	.37	.40	.42	.44	.45	.47	.48	.49	.49	.49	.49	.48
	000	022	068	115	162	210	257	304	349	393	435	475	519	553	584	612	635	655	671	682	690	693	691	686
45	.00	.03	.06	.09	.13	.16	.20	.23	.26	.29	.32	.35	.38	.40	.43	.44	.46	.47	.48	.49	.50	.50	.50	.49
	000	034	080	127	174	221	269	315	360	404	446	486	531	564	595	623	646	666	682	693	701	704	703	697

SEP-DEC S0 S TABLE B-1 SOLAR PARAMETERS COS Z ... SIGNIFIES COS Z =1.
X0 (W/M**2.) ADD 1000 TO VALUES PRECEDED BY .

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
0900		.00	.03	.07	.10	.14	.17	.20	.24	.27	.30	.33	.36	.39	.41	.43	.45	.47	.48	.49	.50	.50	.51	.50	.50
		000	045	091	138	185	232	279	326	371	415	457	496	541	575	606	633	657	676	692	704	711	715	713	708
15		.01	.04	.08	.11	.14	.18	.21	.24	.28	.31	.34	.36	.40	.42	.44	.46	.47	.49	.50	.51	.51	.51	.51	.51
		010	055	101	148	195	242	289	336	381	424	466	506	551	584	615	642	666	686	702	714	721	725	724	718
30		.01	.05	.08	.12	.15	.18	.22	.25	.28	.31	.34	.37	.40	.42	.45	.46	.48	.49	.50	.51	.52	.52	.52	.51
		020	064	111	157	204	252	299	345	390	433	475	515	556	593	624	651	675	695	711	725	730	734	733	728
45		.02	.05	.09	.12	.16	.19	.22	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.51	.52	.52	.53	.52	.52
		028	073	119	166	213	260	307	353	398	442	483	523	567	601	632	659	683	703	719	731	734	742	741	736
1000		.03	.06	.09	.13	.16	.20	.23	.26	.29	.33	.35	.38	.41	.44	.46	.48	.49	.50	.52	.52	.53	.53	.53	.53
		036	081	127	174	221	268	314	360	405	449	491	530	574	608	639	666	690	710	726	739	746	750	749	744
15		.03	.07	.10	.13	.17	.20	.23	.27	.30	.33	.36	.39	.42	.44	.46	.48	.50	.51	.52	.53	.53	.54	.53	.53
		043	088	134	181	227	274	321	367	412	455	497	536	581	615	645	673	697	717	733	745	753	757	756	751
30		.04	.07	.10	.14	.17	.21	.24	.27	.30	.33	.36	.39	.42	.44	.47	.48	.50	.51	.52	.53	.54	.54	.54	.54
		050	094	140	187	233	280	327	373	417	461	502	542	586	620	651	678	702	722	739	751	759	763	762	758
45		.04	.07	.11	.14	.18	.21	.24	.27	.31	.34	.37	.39	.42	.45	.47	.49	.50	.52	.53	.54	.54	.54	.54	.54
		055	099	145	192	238	285	331	377	422	465	507	546	590	624	655	683	707	727	743	755	764	768	766	763
1100		.04	.08	.11	.14	.18	.21	.24	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.54	.55	.55	.54
		059	104	149	196	242	289	335	381	425	469	510	550	594	628	658	686	710	730	747	759	768	772	772	767
15		.05	.08	.11	.15	.18	.21	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
		062	107	152	199	245	292	338	383	428	471	513	552	595	630	661	689	713	733	750	762	771	775	775	771
30		.05	.08	.11	.15	.18	.22	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
		065	109	155	201	247	293	340	385	429	473	514	553	598	631	662	690	714	735	752	764	773	777	778	774
45		.05	.08	.12	.15	.18	.22	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
		066	111	156	202	248	294	340	386	430	473	514	554	596	632	663	691	715	736	753	765	774	779	779	775

SEP-DEC 30 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1200	.05	.08	.12	.15	.18	.22	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
	067	111	156	202	248	294	340	385	430	472	514	553	597	631	662	690	715	735	752	765	774	779	780	778
15	.05	.08	.11	.15	.18	.21	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
	066	110	155	201	247	293	339	384	428	471	512	552	596	630	661	689	713	734	751	765	774	778	779	775
30	.05	.08	.11	.15	.18	.21	.25	.28	.31	.34	.37	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55
	065	108	153	199	245	291	336	381	426	468	510	549	593	627	658	686	711	732	749	763	772	777	778	774
45	.05	.08	.11	.14	.18	.21	.24	.28	.31	.34	.37	.39	.42	.45	.47	.49	.50	.52	.53	.54	.54	.55	.55	.55
	062	106	150	196	242	287	333	378	422	465	506	545	590	624	655	683	708	729	746	760	769	774	775	772
1300	.04	.08	.11	.14	.17	.21	.24	.27	.30	.33	.36	.39	.42	.44	.47	.48	.50	.52	.53	.51	.54	.55	.55	.54
	058	102	147	192	238	283	329	374	418	460	502	541	585	619	651	679	704	725	742	755	765	771	772	769
15	.04	.07	.11	.14	.17	.20	.24	.27	.30	.33	.36	.39	.42	.44	.46	.48	.50	.51	.52	.53	.54	.54	.54	.54
	054	097	142	187	232	278	323	368	412	455	496	535	580	614	645	674	699	720	738	751	761	766	768	765
30	.04	.07	.10	.13	.17	.20	.23	.26	.29	.32	.35	.38	.41	.44	.46	.48	.49	.51	.52	.53	.53	.54	.54	.54
	048	092	136	181	226	272	317	362	406	448	490	529	573	608	639	667	693	714	732	745	755	761	762	759
45	.03	.06	.10	.13	.16	.19	.23	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.51	.52	.53	.53	.53	.53
	042	085	129	174	220	265	310	355	398	441	482	522	565	600	632	660	686	707	725	739	749	755	756	753
1400	.03	.06	.09	.12	.16	.19	.22	.25	.28	.31	.34	.37	.40	.42	.45	.47	.48	.50	.51	.52	.53	.53	.53	.53
	035	078	122	167	212	257	302	347	390	433	474	513	558	592	624	653	678	700	718	732	742	748	749	747
15	.02	.05	.08	.12	.15	.18	.21	.25	.28	.31	.34	.36	.39	.42	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52
	027	070	114	158	203	248	293	338	381	424	465	504	549	583	615	644	669	691	709	721	734	740	742	739
30	.01	.05	.08	.11	.14	.17	.21	.24	.27	.30	.33	.36	.39	.41	.43	.45	.47	.48	.50	.51	.51	.52	.52	.52
	018	061	104	149	194	239	283	328	371	414	455	495	539	574	606	634	660	682	700	715	725	731	733	730
45	.01	.04	.07	.10	.13	.17	.20	.23	.26	.29	.32	.35	.38	.40	.43	.45	.46	.48	.49	.50	.51	.51	.51	.51
	008	051	094	139	183	228	273	317	361	403	445	484	529	563	595	624	650	672	690	705	715	722	724	721

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z
XC (KJ/M**2.)

*** SIGNIFIES COS Z = 1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE	SEP						OCT						NOV						DEC					
		5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1500		.00	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.37	.39	.42	.44	.45	.47	.48	.49	.50	.50	.50	.50
		000	040	084	128	172	217	262	306	350	392	433	473	511	552	584	613	639	661	680	695	705	711	714	711
15		.00	.02	.05	.09	.12	.15	.18	.21	.25	.28	.30	.33	.35	.39	.41	.43	.45	.46	.47	.48	.49	.50	.50	.50
		000	029	072	116	161	205	250	294	338	380	421	461	500	540	573	602	628	650	669	683	694	701	703	701
30		.00	.01	.04	.08	.11	.14	.17	.21	.24	.27	.30	.32	.35	.38	.40	.42	.44	.45	.47	.48	.48	.49	.49	.49
		000	017	060	104	148	193	237	282	325	368	409	448	488	529	560	590	616	638	657	672	683	689	691	689
45		.00	.00	.04	.07	.10	.13	.16	.20	.23	.26	.29	.31	.34	.37	.39	.41	.43	.44	.46	.47	.47	.48	.48	.48
		000	004	047	091	135	180	224	268	312	354	396	435	480	518	547	577	603	626	644	659	670	677	679	677
1600		.00	.00	.03	.06	.09	.12	.15	.19	.22	.25	.28	.30	.34	.36	.38	.40	.42	.44	.45	.46	.47	.47	.47	.47
		000	000	034	078	122	166	211	255	298	341	382	422	467	502	534	564	590	613	632	647	658	664	667	665
15		.00	.00	.02	.05	.08	.11	.14	.18	.21	.24	.27	.29	.32	.35	.37	.39	.41	.43	.44	.45	.46	.46	.46	.46
		000	000	020	064	108	152	197	241	284	327	368	408	453	486	520	550	576	599	618	633	645	651	654	652
30		.00	.00	.01	.04	.07	.10	.13	.16	.20	.23	.26	.28	.31	.34	.36	.38	.40	.42	.43	.44	.45	.45	.45	.45
		000	000	006	050	094	138	182	226	270	312	353	393	438	474	506	536	562	585	605	620	631	638	640	638
45		.00	.00	.00	.03	.06	.09	.12	.15	.19	.22	.24	.27	.30	.33	.35	.37	.39	.41	.42	.43	.44	.44	.44	.44
		000	000	000	035	079	123	167	211	255	297	339	378	424	459	492	521	548	571	590	606	617	624	627	625
1700		.00	.00	.00	.02	.05	.08	.11	.14	.17	.20	.23	.26	.29	.32	.34	.36	.38	.40	.41	.42	.43	.43	.43	.43
		000	000	000	020	064	109	152	196	240	282	324	363	403	444	477	507	534	557	576	592	603	610	612	611
15		.00	.00	.00	.00	.04	.07	.10	.13	.16	.19	.22	.25	.28	.31	.33	.35	.37	.39	.40	.41	.42	.42	.42	.42
		000	000	000	005	049	093	137	181	224	267	308	348	394	435	462	492	519	542	562	577	588	595	598	596
30		.00	.00	.00	.00	.02	.06	.09	.12	.15	.18	.21	.24	.27	.30	.32	.34	.36	.37	.39	.40	.41	.41	.41	.41
		000	000	000	000	033	077	122	165	209	252	293	333	379	414	447	477	504	527	547	562	574	581	584	582
45		.00	.00	.00	.00	.01	.05	.08	.11	.14	.17	.20	.23	.26	.29	.31	.33	.35	.36	.38	.39	.40	.40	.40	.40
		000	000	000	000	018	062	106	150	193	236	276	318	363	399	432	462	489	512	532	548	559	566	569	567

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
1800	.00	.00	.00	.00	.00	.03	.07	.10	.13	.16	.19	.22	.25	.28	.30	.32	.34	.35	.37	.38	.39	.39	.39	.39
	000	000	000	000	002	046	090	134	178	221	262	302	340	384	417	447	474	497	517	533	544	551	554	552
15	.00	.00	.00	.00	.00	.02	.06	.09	.12	.15	.18	.21	.24	.26	.29	.31	.33	.34	.36	.37	.38	.38	.38	.38
	000	000	000	000	000	031	075	119	162	205	247	287	333	369	402	432	459	483	502	518	530	537	539	537
30	.00	.00	.00	.00	.00	.01	.04	.08	.11	.14	.17	.20	.23	.25	.28	.30	.32	.33	.35	.36	.36	.37	.37	.37
	000	000	000	000	000	016	060	104	147	190	232	272	316	354	387	417	444	468	488	503	515	522	525	523
45	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.16	.19	.22	.24	.27	.29	.31	.32	.34	.35	.35	.36	.36	.36
	000	000	000	000	000	000	044	088	132	175	217	257	303	339	372	403	430	453	473	489	500	508	510	508
1900	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.15	.17	.21	.23	.26	.28	.30	.31	.33	.34	.34	.35	.35	.35
	000	000	000	000	000	000	030	074	117	160	202	242	285	324	358	388	415	439	459	475	486	493	496	494
15	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	.14	.16	.20	.22	.25	.27	.29	.30	.32	.33	.33	.34	.34	.34
	000	000	000	000	000	000	015	059	103	146	187	228	274	310	344	374	401	425	445	461	472	479	482	479
30	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.13	.15	.19	.21	.24	.26	.28	.29	.31	.32	.32	.33	.33	.33
	000	000	000	000	000	000	001	045	089	132	173	214	260	296	330	360	388	411	431	447	458	465	468	466
45	.00	.00	.00	.00	.00	.00	.00	.02	.05	.09	.12	.14	.18	.20	.23	.25	.27	.28	.30	.31	.32	.32	.32	.32
	000	000	000	000	000	000	000	031	075	118	160	200	247	283	316	347	374	398	418	434	445	452	454	452
2000	.00	.00	.00	.00	.00	.00	.00	.01	.05	.08	.11	.14	.17	.19	.22	.24	.26	.27	.29	.30	.31	.31	.31	.31
	000	000	000	000	000	000	000	018	062	105	147	187	234	270	304	334	362	385	405	421	432	439	441	439
15	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.16	.18	.21	.23	.25	.27	.28	.29	.30	.30	.30	.30
	000	000	000	000	000	000	000	005	049	092	134	175	221	258	291	322	349	373	393	408	420	427	429	426
30	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.18	.20	.22	.24	.26	.27	.28	.29	.29	.29	.29
	000	000	000	000	000	000	000	000	037	080	122	163	210	246	280	310	338	361	381	397	408	415	417	414
45	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.14	.17	.19	.21	.23	.25	.26	.27	.28	.29	.29	.28
	000	000	000	000	000	000	000	000	026	069	111	152	199	235	269	299	327	350	370	386	397	403	405	403

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z
X0 (W/M**2.)

*** SIGNIFIES COS Z =1.
ADD 1000 TO VALUES PRECEDED BY *

MST	DATE																							
	SEP						OCT						NOV						DEC					
	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30	5	10	15	20	25	30
2100	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.14	.16	.18	.21	.23	.24	.26	.27	.27	.28	.26	.28
	000	000	000	000	000	000	000	000	015	058	101	142	189	225	248	289	316	340	360	375	383	393	395	392
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.07	.10	.13	.15	.18	.20	.22	.23	.25	.25	.27	.27	.27	.27
	000	000	000	000	000	000	000	000	005	049	091	132	179	215	249	279	307	330	350	365	37	383	385	382
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.15	.17	.19	.21	.23	.24	.25	.26	.26	.27	.26
	000	000	000	000	000	000	000	000	000	040	082	123	170	204	240	271	298	321	341	355	367	373	375	372
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.12	.14	.17	.19	.21	.22	.24	.25	.25	.26	.26	.26
	000	000	000	000	000	000	000	000	000	032	074	115	162	198	232	263	290	313	333	348	359	365	367	363
2200	.00	.00	.00	.00	.00	.00	.00	.00	.00	.02	.05	.08	.11	.14	.16	.18	.20	.22	.23	.24	.25	.25	.25	.25
	000	000	000	000	000	000	000	000	000	024	067	108	155	191	225	255	283	306	325	341	351	357	359	355
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.11	13	.16	.18	.20	.21	.23	.24	.24	.25	.25	.25
	000	000	000	000	000	000	000	000	000	018	060	102	149	185	218	249	276	300	319	334	345	351	352	348
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13	.15	.17	.19	.21	.22	.23	.24	.24	.24	.24
	000	000	000	000	000	000	000	000	000	012	055	096	143	180	213	244	271	294	313	328	339	345	346	342
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.04	.07	.10	.13	.15	.17	.19	.21	.22	.23	.24	.24	.24	.24
	000	000	000	000	000	000	000	000	000	009	051	092	139	175	209	239	266	289	309	323	334	340	340	337
2300	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.12	.15	.17	.19	.20	.22	.23	.23	.24	.24	.24
	000	000	000	000	000	000	000	000	000	005	047	089	135	172	205	236	263	286	305	320	330	335	336	332
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.10	.12	.15	.17	.19	.20	.21	.22	.23	.24	.24	.23
	000	000	000	000	000	000	000	000	000	002	045	086	135	169	203	233	260	283	302	317	327	332	333	329
30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.14	.17	.18	.20	.21	.22	.23	.23	.23	.23
	000	000	000	000	000	000	000	000	000	001	043	085	132	166	201	232	258	281	300	315	325	330	330	326
45	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.03	.06	.09	.12	.14	.17	.18	.20	.21	.22	.23	.23	.23	.23
	000	000	000	000	000	000	000	000	000	000	043	084	131	167	201	231	258	281	299	314	323	329	329	325

SEP-DEC 80 S TABLE B-1 SOLAR PARAMETERS COS Z ••• SIGNIFIES COS Z =1.
XO (Z/Z=2.) ADD 1000 TO VALUES PRECEDED BY •

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.45	.49	.54	.58	.61	.65	.68	.71	.73	.75	.77	.78	.79	.79	.80	.80	.80	.80	.80
		SCT	.43	.48	.52	.56	.60	.64	.67	.70	.72	.74	.76	.77	.78	.79	.79	.79	.79	.79	.79
		BKN	.39	.43	.48	.52	.56	.60	.63	.66	.69	.71	.73	.74	.75	.76	.76	.76	.76	.76	.76
		OVC	.38	.42	.46	.49	.53	.56	.59	.62	.65	.67	.69	.71	.72	.73	.74	.74	.74	.74	.74
CLR	SCT	CLR	.38	.42	.46	.50	.54	.57	.60	.63	.66	.68	.70	.71	.73	.74	.74	.75	.75	.75	.75
		SCT	.37	.41	.45	.49	.53	.56	.60	.63	.65	.67	.69	.71	.72	.73	.74	.74	.74	.74	.74
		BKN	.34	.38	.42	.46	.50	.53	.57	.60	.62	.65	.67	.68	.70	.70	.71	.71	.71	.71	.71
		OVC	.33	.37	.40	.44	.47	.50	.53	.56	.59	.61	.63	.65	.67	.68	.69	.69	.70	.70	.70
CLR	BKN	CLR	.30	.34	.37	.40	.43	.46	.49	.52	.54	.56	.57	.59	.60	.61	.61	.61	.61	.61	.61
		SCT	.29	.33	.36	.39	.43	.46	.48	.51	.53	.55	.57	.59	.60	.60	.61	.61	.61	.61	.61
		BKN	.27	.30	.34	.37	.40	.43	.46	.49	.51	.53	.55	.57	.58	.58	.59	.59	.59	.59	.59
		OVC	.27	.30	.33	.36	.39	.41	.44	.46	.49	.51	.53	.54	.56	.56	.57	.58	.58	.58	.58
CLR	OVC	CLR	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.32	.33	.33	.34	.34	.34	.34	.34
		SCT	.18	.19	.21	.22	.24	.25	.27	.28	.29	.30	.31	.32	.33	.33	.34	.34	.34	.34	.34
		BKN	.16	.18	.20	.21	.23	.25	.26	.27	.29	.30	.31	.31	.32	.32	.33	.33	.33	.33	.33
		OVC	.16	.18	.19	.21	.22	.24	.25	.26	.27	.29	.30	.30	.31	.32	.32	.32	.32	.32	.32
SCT	CLR	CLR	.37	.41	.45	.49	.52	.56	.59	.62	.65	.67	.69	.71	.72	.73	.74	.75	.76	.76	.76
		SCT	.36	.40	.44	.48	.51	.55	.58	.61	.64	.67	.69	.70	.72	.73	.74	.75	.75	.75	.75
		BKN	.32	.36	.41	.45	.48	.52	.55	.59	.61	.64	.66	.68	.69	.70	.71	.72	.72	.72	.72
		OVC	.32	.35	.39	.42	.46	.49	.52	.55	.58	.60	.63	.65	.66	.68	.69	.70	.70	.70	.70
SCT	SCT	CLR	.32	.36	.39	.43	.47	.50	.53	.56	.59	.61	.63	.65	.67	.68	.69	.70	.71	.71	.72
		SCT	.31	.35	.38	.42	.46	.49	.52	.56	.58	.61	.63	.65	.67	.68	.69	.70	.70	.71	.71
		BKN	.28	.32	.36	.40	.43	.47	.50	.53	.56	.58	.61	.63	.64	.66	.67	.67	.68	.68	.68
		OVC	.28	.31	.35	.38	.41	.44	.47	.50	.53	.55	.58	.60	.62	.63	.64	.65	.66	.67	.67
SCT	BKN	CLR	.26	.29	.32	.35	.38	.41	.44	.46	.49	.51	.53	.54	.56	.57	.58	.58	.59	.59	.59
		SCT	.25	.28	.31	.34	.38	.41	.43	.46	.48	.51	.52	.54	.56	.57	.57	.58	.58	.58	.58
		BKN	.23	.26	.29	.33	.36	.39	.42	.44	.47	.49	.51	.52	.54	.55	.56	.56	.56	.56	.56
		OVC	.23	.26	.28	.31	.34	.37	.40	.42	.44	.47	.49	.50	.52	.53	.54	.55	.55	.55	.55
SCT	OVC	CLR	.16	.17	.19	.21	.22	.23	.25	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33	.33
		SCT	.15	.17	.19	.20	.22	.23	.25	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33	.33
		BKN	.15	.16	.18	.19	.21	.23	.24	.25	.27	.28	.29	.30	.30	.31	.31	.32	.32	.32	.32
		OVC	.14	.16	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.30	.31	.31	.31	.32	.32

STATE 1-1-1

THIN HIGH CLOUD
LOW ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.30	.33	.36	.39	.42	.45	.48	.50	.52	.54	.55	.57	.58	.59	.60	.60	.61	.61	.61
		SCT	.29	.32	.35	.39	.42	.44	.47	.49	.52	.54	.55	.57	.58	.59	.60	.60	.60	.61	.61
		BKN	.26	.30	.33	.36	.39	.42	.45	.47	.50	.52	.53	.55	.56	.57	.58	.58	.58	.58	.58
		OVC	.26	.29	.32	.35	.37	.40	.43	.45	.47	.49	.51	.52	.54	.55	.56	.57	.57	.57	.57
BKN	SCT	CLR	.26	.29	.32	.35	.38	.41	.43	.46	.48	.50	.51	.53	.54	.55	.56	.57	.58	.58	.58
		SCT	.25	.29	.32	.35	.38	.40	.43	.45	.47	.49	.51	.53	.54	.55	.56	.57	.57	.58	.58
		BKN	.24	.27	.30	.33	.36	.38	.41	.44	.46	.48	.50	.51	.52	.53	.54	.55	.55	.55	.55
		OVC	.23	.26	.29	.31	.34	.37	.39	.41	.43	.46	.47	.49	.50	.52	.53	.54	.54	.54	.55
BKN	BKN	CLR	.22	.24	.27	.29	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.49	.49	.49
		SCT	.21	.24	.26	.29	.31	.34	.36	.38	.40	.42	.44	.45	.46	.47	.48	.48	.49	.49	.49
		BKN	.19	.22	.25	.27	.30	.32	.35	.37	.39	.41	.42	.44	.45	.46	.46	.47	.47	.47	.47
		OVC	.19	.22	.24	.26	.29	.31	.33	.35	.37	.39	.41	.42	.43	.44	.45	.46	.46	.46	.46
BKN	OVC	CLR	.14	.15	.17	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29	.29	.29
		SCT	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.26	.27	.28	.28	.28	.29	.29	.29
		BKN	.13	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28	.28	.28
		OVC	.13	.14	.15	.16	.18	.19	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.28	.28	.28
OVC	CLR	CLR	.13	.15	.17	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.34
		SCT	.13	.14	.16	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33
		BKN	.12	.14	.15	.17	.19	.21	.22	.24	.25	.26	.27	.29	.29	.30	.31	.31	.32	.32	.32
		OVC	.12	.13	.15	.17	.18	.20	.21	.23	.24	.25	.27	.28	.29	.29	.30	.31	.31	.32	.32
OVC	SCT	CLR	.12	.14	.15	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.33
		SCT	.12	.13	.15	.17	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.30	.31	.32	.32	.32
		BKN	.11	.12	.14	.16	.18	.19	.21	.22	.24	.25	.26	.27	.28	.29	.30	.30	.31	.31	.31
		OVC	.11	.12	.14	.15	.17	.18	.20	.21	.23	.24	.25	.26	.27	.28	.29	.30	.30	.31	.31
OVC	BKN	CLR	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29
		SCT	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.26	.27	.28	.28	.28	.29
		BKN	.09	.11	.12	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.28	.28
		OVC	.09	.11	.12	.14	.15	.16	.18	.19	.20	.21	.23	.24	.24	.25	.26	.27	.27	.27	.27
OVC	OVC	CLR	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.18	.18	.19	.19	.19
		SCT	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.16	.17	.18	.18	.18	.19	.19	.19
		BKN	.07	.08	.09	.10	.11	.12	.12	.13	.14	.15	.16	.16	.17	.17	.18	.18	.18	.18	.18
		OVC	.07	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.16	.17	.17	.18	.18	.18	.18

STATE 1-1-1

THIN HIGH CLOUD
LOW ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.38	.42	.45	.49	.52	.56	.59	.62	.64	.66	.68	.70	.71	.72	.72	.73	.73	.73	.73
		SCT	.36	.40	.44	.48	.51	.55	.58	.61	.64	.66	.68	.69	.71	.72	.72	.72	.72	.72	.72
		BKN	.33	.37	.41	.45	.48	.52	.55	.58	.61	.63	.65	.67	.68	.69	.69	.69	.69	.69	.69
		OVC	.32	.36	.39	.42	.46	.49	.52	.55	.57	.60	.62	.64	.65	.66	.67	.67	.67	.67	.67
CLR	SCT	CLR	.32	.36	.40	.43	.46	.50	.53	.56	.58	.60	.63	.64	.66	.67	.68	.68	.68	.68	.68
		SCT	.31	.35	.39	.42	.46	.49	.52	.55	.58	.60	.62	.64	.65	.66	.67	.68	.68	.68	.68
		BKN	.29	.32	.36	.39	.43	.46	.50	.53	.55	.58	.60	.62	.63	.64	.65	.65	.65	.65	.65
		OVC	.28	.31	.35	.38	.41	.44	.47	.50	.52	.55	.57	.59	.60	.62	.63	.63	.64	.64	.64
CLR	BKN	CLR	.26	.29	.32	.35	.38	.41	.43	.46	.48	.50	.52	.53	.55	.55	.56	.56	.56	.56	.56
		SCT	.25	.28	.31	.34	.37	.40	.43	.45	.48	.50	.52	.53	.54	.55	.56	.56	.56	.56	.56
		BKN	.23	.26	.29	.32	.35	.38	.41	.44	.46	.48	.50	.51	.53	.53	.54	.54	.54	.54	.54
		OVC	.23	.26	.28	.31	.34	.36	.39	.41	.44	.46	.48	.49	.51	.52	.52	.53	.53	.53	.53
CLR	OVC	CLR	.16	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.30	.31	.31	.31	.32	.32	.32
		SCT	.15	.17	.18	.20	.21	.23	.24	.25	.27	.28	.29	.29	.30	.31	.31	.31	.31	.31	.31
		BKN	.15	.16	.18	.19	.21	.22	.23	.25	.26	.27	.28	.29	.30	.30	.30	.31	.31	.31	.31
		OVC	.14	.16	.17	.19	.20	.21	.23	.24	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30
SCT	CLR	CLR	.31	.35	.38	.42	.45	.49	.52	.55	.57	.60	.62	.64	.66	.67	.68	.69	.69	.69	.69
		SCT	.30	.34	.37	.41	.45	.48	.51	.54	.57	.59	.62	.64	.65	.67	.67	.68	.68	.68	.68
		BKN	.28	.31	.35	.38	.42	.45	.49	.52	.55	.57	.59	.61	.63	.64	.65	.66	.66	.66	.66
		OVC	.27	.30	.34	.37	.40	.43	.46	.49	.52	.54	.56	.58	.60	.62	.63	.64	.64	.64	.64
SCT	SCT	CLR	.27	.31	.34	.37	.41	.44	.47	.50	.52	.55	.57	.59	.61	.62	.64	.64	.65	.65	.65
		SCT	.26	.30	.33	.37	.40	.43	.46	.49	.52	.55	.57	.59	.61	.62	.63	.64	.64	.65	.65
		BKN	.24	.28	.31	.34	.38	.41	.44	.47	.50	.53	.55	.57	.59	.60	.61	.62	.62	.62	.62
		OVC	.24	.27	.30	.33	.36	.39	.42	.45	.47	.50	.52	.54	.56	.58	.59	.60	.61	.61	.61
SCT	BKN	CLR	.22	.25	.28	.31	.34	.36	.39	.41	.44	.46	.48	.50	.51	.52	.53	.54	.54	.54	.54
		SCT	.22	.24	.27	.30	.33	.36	.39	.41	.43	.46	.48	.49	.51	.52	.53	.53	.54	.54	.54
		BKN	.20	.23	.26	.29	.31	.34	.37	.40	.42	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52
		OVC	.20	.22	.25	.28	.30	.33	.35	.38	.40	.42	.44	.46	.47	.49	.50	.50	.51	.51	.51
SCT	OVC	CLR	.14	.15	.17	.18	.20	.21	.23	.24	.25	.26	.27	.28	.29	.30	.30	.30	.31	.31	.31
		SCT	.14	.15	.17	.18	.20	.21	.22	.24	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30
		BKN	.13	.14	.16	.17	.19	.20	.22	.23	.24	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30
		OVC	.13	.14	.16	.17	.18	.20	.21	.22	.23	.25	.26	.27	.27	.28	.29	.29	.29	.29	.29

STATE 1-1-2

THIN HIGH CLOUD
LOW ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	75	.80	.85	.90	.95
BKN	CLR	CLR	.26	.29	.32	.35	.37	.40	.42	.45	.47	.49	.51	.52	.54	.55	.55	.56	.56	.57	.57
		SCT	.25	.28	.31	.34	.37	.39	.42	.44	.47	.49	.50	.52	.53	.54	.55	.56	.56	.56	.56
		BKN	.23	.26	.29	.32	.35	.38	.40	.43	.45	.47	.49	.50	.52	.53	.53	.54	.54	.54	.54
		OVC	.23	.25	.28	.31	.33	.36	.38	.40	.43	.45	.47	.48	.50	.51	.52	.53	.53	.53	.53
BKN	SCT	CLR	.23	.26	.28	.31	.34	.36	.39	.41	.43	.45	.47	.49	.50	.51	.52	.53	.54	.54	.54
		SCT	.22	.25	.28	.31	.33	.36	.38	.41	.43	.45	.47	.49	.50	.51	.52	.53	.53	.53	.53
		BKN	.21	.23	.26	.29	.32	.34	.37	.39	.42	.44	.45	.47	.48	.50	.50	.51	.51	.51	.51
		OVC	.20	.23	.25	.28	.30	.33	.35	.37	.40	.42	.43	.45	.47	.48	.49	.50	.50	.51	.51
BKN	BKN	CLR	.19	.21	.24	.26	.29	.31	.33	.35	.37	.39	.40	.42	.43	.44	.45	.45	.46	.46	.46
		SCT	.18	.21	.23	.26	.28	.30	.33	.35	.37	.39	.40	.42	.43	.44	.44	.45	.45	.45	.45
		BKN	.17	.20	.22	.24	.27	.29	.31	.34	.36	.37	.39	.40	.42	.43	.43	.44	.44	.44	.44
		OVC	.17	.19	.21	.24	.26	.28	.30	.32	.34	.36	.37	.39	.40	.41	.42	.43	.43	.43	.43
BKN	OVC	CLR	.12	.14	.15	.16	.17	.19	.20	.21	.22	.23	.24	.25	.25	.26	.27	.27	.27	.27	.27
		SCT	.12	.13	.15	.16	.17	.19	.20	.21	.22	.23	.24	.25	.25	.26	.26	.27	.27	.27	.27
		BKN	.11	.13	.14	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.25	.26	.26	.26	.26	.26
		OVC	.11	.12	.14	.15	.16	.17	.19	.20	.21	.22	.23	.24	.24	.25	.25	.26	.26	.25	.26
OVC	CLR	CLR	.13	.15	.17	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.34
		SCT	.13	.14	.16	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33
		BKN	.12	.14	.15	.17	.19	.21	.22	.24	.25	.26	.27	.29	.29	.30	.31	.31	.32	.32	.32
		OVC	.12	.13	.15	.17	.18	.20	.21	.23	.24	.25	.27	.28	.29	.29	.30	.31	.31	.32	.32
OVC	SCT	CLR	.12	.14	.15	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.33
		SCT	.12	.13	.15	.17	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.30	.31	.32	.32	.32
		BKN	.11	.12	.14	.16	.18	.19	.21	.22	.24	.25	.26	.27	.28	.29	.30	.30	.31	.31	.31
		OVC	.11	.12	.14	.15	.17	.18	.20	.21	.23	.24	.25	.26	.27	.28	.29	.30	.30	.31	.31
OVC	BKN	CLR	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29
		SCT	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.26	.27	.28	.28	.28	.29
		BKN	.09	.11	.12	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.28	.28
		OVC	.09	.11	.12	.14	.15	.16	.18	.19	.20	.21	.23	.24	.24	.25	.26	.27	.27	.27	.27
OVC	OVC	CLR	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.18	.18	.19	.19	.19
		SCT	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.16	.17	.18	.18	.18	.19	.19	.19
		BKN	.07	.08	.09	.10	.11	.12	.12	.13	.14	.15	.16	.16	.17	.17	.18	.18	.18	.18	.18
		OVC	.07	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.16	.17	.17	.18	.18	.18	.18

STATE 1-1-2

THIN HIGH CLOUD
LOW ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (T)

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.54	.58	.62	.66	.69	.72	.74	.77	.79	.80	.82	.83	.84	.84	.84	.85	.85	.85	.85
		SCT	.52	.56	.61	.64	.68	.71	.74	.76	.78	.80	.81	.82	.83	.84	.84	.84	.84	.84	.84
		BKN	.48	.53	.57	.61	.65	.69	.72	.74	.76	.78	.80	.81	.82	.82	.83	.83	.83	.83	.83
		OVC	.48	.52	.56	.59	.63	.66	.69	.71	.74	.76	.77	.79	.80	.81	.81	.81	.81	.81	.81
CLR	SCT	CLR	.48	.53	.57	.61	.64	.67	.70	.73	.75	.77	.78	.80	.81	.81	.82	.82	.82	.82	.82
		SCT	.47	.51	.56	.60	.63	.67	.70	.72	.74	.76	.78	.79	.80	.81	.82	.82	.82	.82	.82
		BKN	.44	.48	.53	.57	.61	.64	.67	.70	.73	.75	.76	.78	.79	.80	.80	.80	.80	.80	.80
		OVC	.43	.47	.51	.55	.59	.62	.65	.68	.70	.72	.74	.76	.77	.78	.79	.79	.79	.79	.79
CLR	BKN	CLR	.41	.45	.49	.53	.56	.60	.63	.65	.67	.69	.71	.72	.73	.74	.75	.75	.75	.75	.75
		SCT	.40	.44	.48	.52	.56	.59	.62	.65	.67	.69	.71	.72	.73	.74	.75	.75	.75	.75	.75
		BKN	.37	.41	.46	.50	.54	.57	.60	.63	.66	.68	.69	.71	.72	.73	.73	.73	.73	.73	.73
		OVC	.37	.41	.45	.48	.52	.55	.58	.61	.63	.66	.67	.69	.70	.71	.72	.72	.72	.72	.72
CLR	OVC	CLR	.27	.30	.33	.35	.38	.40	.43	.45	.47	.48	.50	.51	.52	.53	.53	.54	.54	.54	.54
		SCT	.27	.30	.32	.35	.38	.40	.42	.45	.46	.48	.50	.51	.52	.53	.53	.53	.53	.53	.53
		BKN	.25	.28	.31	.34	.36	.39	.41	.44	.46	.47	.49	.50	.51	.52	.52	.52	.52	.52	.52
		OVC	.25	.28	.30	.33	.35	.38	.40	.42	.44	.46	.48	.49	.50	.51	.51	.52	.52	.52	.52
SCT	CLR	CLR	.49	.53	.57	.61	.65	.68	.70	.73	.75	.77	.78	.80	.81	.82	.82	.83	.83	.83	.83
		SCT	.48	.52	.56	.60	.64	.67	.70	.72	.75	.77	.78	.80	.81	.81	.82	.82	.82	.82	.82
		BKN	.44	.49	.53	.57	.61	.65	.68	.70	.73	.75	.77	.78	.79	.80	.80	.81	.81	.81	.81
		OVC	.44	.48	.52	.55	.59	.62	.65	.68	.70	.73	.74	.76	.77	.78	.79	.79	.80	.80	.80
SCT	SCT	CLR	.44	.49	.53	.57	.60	.63	.66	.69	.71	.73	.75	.77	.78	.79	.80	.80	.81	.81	.81
		SCT	.43	.47	.52	.56	.59	.63	.66	.69	.71	.73	.75	.77	.78	.79	.79	.80	.80	.80	.80
		BKN	.40	.45	.49	.53	.57	.61	.64	.67	.69	.72	.73	.75	.76	.77	.78	.78	.78	.78	.78
		OVC	.40	.44	.48	.51	.55	.58	.61	.64	.67	.69	.71	.73	.75	.76	.77	.77	.78	.78	.78
SCT	BKN	CLR	.38	.42	.46	.49	.53	.56	.59	.62	.64	.66	.68	.70	.71	.72	.73	.73	.73	.73	.73
		SCT	.37	.41	.45	.49	.52	.56	.59	.62	.64	.66	.68	.70	.71	.72	.73	.73	.73	.73	.73
		BKN	.34	.39	.43	.47	.50	.54	.57	.60	.63	.65	.67	.68	.70	.71	.71	.72	.72	.72	.72
		OVC	.34	.38	.42	.45	.49	.52	.55	.58	.61	.63	.65	.67	.68	.69	.70	.70	.71	.71	.71
SCT	OVC	CLR	.26	.28	.31	.33	.36	.38	.40	.43	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52	.52
		SCT	.25	.28	.30	.33	.35	.38	.40	.42	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52	.52
		BKN	.24	.26	.29	.32	.34	.37	.39	.41	.43	.45	.47	.48	.49	.50	.51	.51	.51	.51	.51
		OVC	.23	.26	.28	.31	.33	.36	.38	.40	.42	.44	.46	.47	.48	.49	.50	.50	.51	.51	.51

STATE 1-2-1

THIN HIGH CLOUD
HIGH ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.44	.46	.52	.55	.59	.61	.64	.66	.68	.70	.72	.73	.74	.75	.75	.76	.76	.76	.76
		SCT	.43	.47	.51	.54	.58	.61	.64	.66	.68	.70	.71	.73	.74	.75	.75	.76	.76	.76	.76
		BKN	.40	.44	.48	.52	.55	.59	.62	.64	.66	.68	.70	.71	.72	.73	.74	.74	.74	.74	.74
		OVC	.39	.43	.47	.50	.53	.57	.59	.62	.64	.66	.68	.69	.71	.72	.72	.73	.73	.73	.73
BKN	SCT	CLR	.40	.44	.48	.51	.55	.58	.60	.63	.65	.67	.69	.70	.71	.72	.73	.74	.74	.74	.74
		SCT	.39	.43	.47	.51	.54	.57	.60	.63	.65	.67	.68	.70	.71	.72	.73	.73	.74	.74	.74
		BKN	.36	.40	.44	.48	.52	.55	.58	.61	.63	.65	.67	.69	.70	.71	.71	.72	.72	.72	.72
		OVC	.36	.40	.43	.47	.50	.53	.56	.59	.61	.63	.65	.67	.68	.69	.70	.71	.71	.71	.71
BKN	BKN	CLR	.34	.38	.42	.45	.48	.51	.54	.57	.59	.61	.62	.64	.65	.66	.67	.67	.67	.67	.67
		SCT	.33	.37	.41	.44	.48	.51	.54	.56	.58	.60	.62	.64	.65	.66	.66	.67	.67	.67	.67
		BKN	.31	.35	.39	.43	.46	.49	.52	.55	.57	.59	.61	.62	.64	.64	.65	.65	.66	.66	.66
		OVC	.31	.34	.38	.41	.44	.47	.50	.53	.55	.57	.59	.61	.62	.63	.64	.65	.65	.65	.65
BKN	OVC	CLR	.23	.26	.28	.31	.33	.35	.37	.39	.41	.42	.44	.45	.46	.47	.47	.48	.48	.48	.48
		SCT	.23	.25	.28	.30	.33	.35	.37	.39	.41	.42	.43	.45	.46	.47	.47	.48	.48	.48	.48
		BKN	.22	.24	.27	.29	.32	.34	.36	.38	.40	.41	.43	.44	.45	.46	.46	.47	.47	.47	.47
		OVC	.22	.24	.26	.28	.31	.33	.35	.37	.39	.40	.42	.43	.44	.45	.46	.46	.46	.46	.46
OVC	CLR	CLR	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.52	.53	.54	.55	.56	.56	.57	.57
		SCT	.25	.29	.32	.35	.38	.40	.43	.45	.47	.49	.50	.52	.53	.54	.55	.55	.56	.56	.56
		BKN	.24	.27	.30	.33	.36	.39	.41	.44	.46	.48	.49	.51	.52	.53	.54	.54	.55	.55	.55
		OVC	.23	.26	.29	.32	.35	.38	.40	.42	.44	.46	.48	.49	.51	.52	.53	.53	.54	.54	.55
OVC	SCT	CLR	.24	.27	.30	.33	.36	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.55	.55	.55
		SCT	.23	.27	.30	.33	.35	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.54	.55	.55
		BKN	.22	.25	.28	.31	.34	.37	.39	.42	.44	.46	.47	.49	.50	.51	.52	.53	.53	.54	.54
		OVC	.22	.25	.27	.30	.33	.36	.38	.40	.42	.44	.46	.48	.49	.50	.51	.52	.53	.53	.53
OVC	BKN	CLR	.21	.24	.27	.29	.32	.35	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.51
		SCT	.20	.23	.26	.29	.32	.34	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50
		BKN	.19	.22	.25	.28	.31	.33	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.49	.49	.49
		OVC	.19	.22	.24	.27	.30	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.49	.49
OVC	OVC	CLR	.15	.17	.19	.21	.23	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		SCT	.15	.17	.19	.21	.22	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		BKN	.14	.16	.18	.20	.22	.24	.25	.27	.28	.30	.31	.32	.33	.34	.34	.35	.35	.36	.36
		OVC	.14	.16	.17	.19	.21	.23	.25	.26	.28	.29	.30	.31	.32	.33	.34	.34	.35	.35	.36

STATE 1-2-1

THIN HIGH CLOUD
HIGH ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.48	.52	.56	.59	.63	.66	.68	.71	.73	.75	.76	.78	.79	.79	.80	.80	.80	.80	.80
		SCT	.47	.51	.55	.58	.62	.65	.68	.70	.73	.74	.76	.77	.78	.79	.79	.80	.80	.80	.80
		BKN	.43	.47	.52	.56	.59	.63	.66	.68	.71	.73	.74	.76	.77	.77	.78	.78	.78	.78	.78
		OVC	.43	.46	.50	.54	.57	.60	.63	.66	.68	.70	.72	.73	.75	.76	.76	.77	.77	.77	.77
CLR	SCT	CLR	.43	.47	.51	.55	.58	.61	.64	.67	.69	.71	.73	.74	.75	.76	.77	.77	.77	.77	.77
		SCT	.42	.46	.50	.54	.57	.61	.64	.66	.69	.71	.73	.74	.75	.76	.77	.77	.77	.77	.77
		BKN	.39	.43	.47	.51	.55	.58	.61	.64	.67	.69	.71	.72	.74	.75	.75	.75	.75	.75	.75
		OVC	.39	.42	.46	.49	.53	.56	.59	.62	.64	.67	.69	.70	.72	.73	.74	.74	.74	.74	.74
CLR	BKN	CLR	.37	.40	.44	.47	.51	.54	.57	.59	.62	.64	.66	.67	.68	.69	.70	.70	.70	.70	.70
		SCT	.36	.39	.43	.47	.50	.53	.56	.59	.61	.64	.65	.67	.68	.69	.69	.70	.70	.70	.70
		BKN	.33	.37	.41	.45	.48	.51	.55	.57	.60	.62	.64	.65	.67	.68	.68	.68	.68	.68	.68
		OVC	.33	.36	.40	.43	.46	.50	.53	.55	.58	.60	.62	.64	.65	.66	.67	.67	.67	.67	.67
CLR	OVC	CLR	.24	.27	.29	.31	.34	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.49	.49	.49	.49
		SCT	.24	.26	.29	.31	.33	.35	.38	.40	.41	.43	.45	.46	.47	.48	.48	.49	.49	.49	.49
		BKN	.23	.25	.27	.30	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.47	.48	.48	.48	.48
		OVC	.22	.25	.27	.29	.31	.33	.35	.37	.39	.41	.43	.44	.45	.46	.47	.47	.47	.47	.47
SCT	CLR	CLR	.44	.48	.52	.56	.59	.62	.65	.68	.70	.72	.74	.75	.76	.77	.78	.78	.78	.78	.78
		SCT	.43	.47	.51	.55	.58	.62	.64	.67	.69	.72	.73	.75	.76	.77	.78	.78	.78	.78	.78
		BKN	.40	.44	.48	.52	.56	.59	.62	.65	.68	.70	.72	.73	.74	.75	.76	.76	.76	.76	.76
		OVC	.39	.43	.47	.50	.54	.57	.60	.63	.65	.67	.69	.71	.73	.74	.75	.75	.75	.75	.75
SCT	SCT	CLR	.40	.44	.48	.51	.55	.58	.61	.64	.66	.68	.70	.72	.73	.74	.75	.76	.76	.76	.76
		SCT	.39	.43	.47	.51	.54	.57	.61	.63	.66	.68	.70	.72	.73	.74	.75	.75	.76	.76	.76
		BKN	.36	.40	.44	.48	.52	.55	.59	.62	.64	.66	.68	.70	.72	.73	.73	.74	.74	.74	.74
		OVC	.36	.39	.43	.47	.50	.53	.56	.59	.62	.64	.66	.68	.70	.71	.72	.73	.73	.73	.73
SCT	BKN	CLR	.34	.38	.41	.45	.48	.51	.54	.57	.59	.61	.63	.65	.66	.67	.68	.69	.69	.69	.69
		SCT	.33	.37	.41	.44	.48	.51	.54	.57	.59	.61	.63	.65	.66	.67	.68	.68	.68	.68	.68
		BKN	.31	.35	.38	.42	.46	.49	.52	.55	.58	.60	.62	.63	.65	.66	.67	.67	.67	.67	.67
		OVC	.31	.34	.37	.41	.44	.47	.50	.53	.56	.58	.60	.62	.63	.64	.65	.66	.66	.66	.66
SCT	OVC	CLR	.23	.25	.28	.30	.32	.34	.36	.38	.40	.42	.43	.45	.46	.47	.47	.48	.48	.48	.48
		SCT	.22	.25	.27	.30	.32	.34	.36	.38	.40	.42	.43	.45	.46	.47	.47	.48	.48	.48	.48
		BKN	.21	.24	.26	.28	.31	.33	.35	.37	.39	.41	.42	.44	.45	.46	.46	.47	.47	.47	.47
		OVC	.21	.23	.26	.28	.30	.32	.34	.36	.38	.40	.41	.43	.44	.45	.46	.46	.46	.46	.46

STATE 1-2-2

THIN HIGH CLOUD
HIGH ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			cos Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	75	.80	.85	.90	.95
BKN	CLR	CLR	.40	.44	.48	.51	.54	.57	.60	.62	.64	.66	.68	.69	.70	.71	.72	.72	.72	.72	.72
		SCT	.39	.43	.47	.50	.53	.56	.59	.62	.64	.66	.68	.69	.70	.71	.72	.72	.72	.72	.72
		BKN	.36	.40	.44	.48	.51	.54	.57	.60	.62	.64	.66	.67	.69	.70	.70	.70	.71	.71	.71
		OVC	.36	.39	.43	.46	.49	.52	.55	.58	.60	.62	.64	.66	.67	.68	.69	.69	.70	.70	.70
BKN	SCT	CLR	.36	.40	.44	.47	.50	.53	.56	.59	.61	.63	.65	.66	.68	.69	.69	.70	.70	.70	.70
		SCT	.35	.39	.43	.46	.50	.53	.56	.58	.61	.63	.65	.66	.67	.68	.69	.70	.70	.70	.70
		BKN	.33	.37	.41	.44	.48	.51	.54	.57	.59	.61	.63	.65	.66	.67	.68	.68	.68	.68	.68
		OVC	.33	.36	.40	.43	.46	.49	.52	.55	.57	.59	.61	.63	.65	.66	.67	.67	.68	.68	.68
BKN	BKN	CLR	.31	.35	.38	.41	.44	.47	.50	.53	.55	.57	.59	.60	.61	.62	.63	.64	.64	.64	.64
		SCT	.30	.34	.37	.41	.44	.47	.50	.52	.55	.57	.58	.60	.61	.62	.63	.63	.64	.64	.64
		BKN	.28	.32	.36	.39	.42	.45	.48	.51	.53	.55	.57	.59	.60	.61	.62	.62	.62	.62	.62
		OVC	.28	.31	.35	.38	.41	.44	.47	.49	.52	.54	.56	.57	.59	.60	.61	.61	.61	.61	.61
BKN	OVC	CLR	.21	.24	.26	.28	.30	.32	.34	.36	.38	.39	.40	.42	.43	.44	.44	.45	.45	.45	.45
		SCT	.21	.23	.25	.28	.30	.32	.34	.36	.37	.39	.40	.42	.43	.44	.44	.45	.45	.45	.45
		BKN	.20	.22	.24	.27	.29	.31	.33	.35	.37	.38	.40	.41	.42	.43	.43	.44	.44	.44	.44
		OVC	.20	.22	.24	.26	.28	.30	.32	.34	.36	.37	.39	.40	.41	.42	.43	.43	.43	.43	.43
OVC	CLR	CLR	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.52	.53	.54	.55	.56	.56	.57	.57
		SCT	.25	.29	.32	.35	.38	.40	.43	.45	.47	.49	.50	.52	.53	.54	.55	.55	.56	.56	.56
		BKN	.24	.27	.30	.33	.36	.39	.41	.44	.46	.48	.49	.51	.52	.53	.54	.54	.55	.55	.55
		OVC	.23	.26	.29	.32	.35	.38	.40	.42	.44	.46	.48	.49	.51	.52	.53	.53	.54	.54	.55
OVC	SCT	CLR	.24	.27	.30	.33	.36	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.55	.55	.55
		SCT	.23	.27	.30	.33	.35	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.54	.55	.55
		BKN	.22	.25	.28	.31	.34	.37	.39	.42	.44	.46	.47	.49	.50	.51	.52	.53	.53	.54	.54
		OVC	.22	.25	.27	.30	.33	.36	.38	.40	.42	.44	.46	.48	.49	.50	.51	.52	.53	.53	.53
OVC	BKN	CLR	.21	.24	.27	.29	.32	.35	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.51
		SCT	.20	.23	.26	.29	.32	.34	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.50
		BKN	.19	.22	.25	.28	.31	.33	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.49	.49	.49
		OVC	.19	.22	.24	.27	.30	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.49	.49
OVC	OVC	CLR	.15	.17	.19	.21	.23	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		SCT	.15	.17	.19	.21	.22	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		BKN	.14	.16	.18	.20	.22	.24	.25	.27	.28	.30	.31	.32	.33	.34	.34	.35	.35	.36	.36
		OVC	.14	.16	.17	.19	.21	.23	.25	.26	.28	.29	.30	.31	.32	.33	.34	.34	.35	.35	.36

STATE 1-2-2 THIN HIGH CLOUD
HIGH ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.45	.49	.54	.58	.61	.65	.68	.71	.73	.75	.77	.78	.79	.79	.80	.80	.80	.80	.80
		SCT	.40	.44	.48	.52	.56	.60	.63	.66	.69	.71	.73	.75	.76	.77	.78	.78	.78	.78	.78
		BKN	.36	.40	.43	.47	.50	.54	.57	.59	.62	.64	.66	.67	.68	.69	.70	.70	.70	.70	.70
		OVC	.28	.31	.33	.36	.39	.42	.45	.48	.50	.52	.54	.56	.58	.59	.60	.60	.61	.61	.61
CLR	SCT	CLR	.38	.42	.46	.50	.54	.57	.60	.63	.66	.68	.70	.71	.73	.74	.74	.75	.75	.75	.75
		SCT	.34	.38	.42	.46	.50	.53	.57	.60	.62	.65	.67	.69	.70	.72	.72	.73	.73	.73	.73
		BKN	.31	.35	.38	.42	.45	.48	.51	.54	.56	.59	.61	.62	.63	.64	.65	.65	.66	.66	.66
		OVC	.24	.27	.30	.33	.36	.38	.41	.44	.46	.48	.51	.52	.54	.55	.56	.57	.58	.58	.58
CLR	BKN	CLR	.30	.34	.37	.40	.43	.46	.49	.52	.54	.56	.57	.59	.60	.61	.61	.61	.61	.61	.61
		SCT	.27	.31	.34	.37	.40	.43	.46	.49	.51	.54	.55	.57	.58	.59	.60	.60	.60	.60	.60
		BKN	.25	.28	.31	.34	.37	.40	.42	.45	.47	.49	.51	.52	.53	.54	.55	.55	.55	.55	.55
		OVC	.20	.22	.25	.27	.30	.32	.35	.37	.39	.41	.43	.45	.46	.47	.48	.49	.49	.49	.49
CLR	OVC	CLR	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.32	.33	.33	.34	.34	.34	.34	.34
		SCT	.17	.18	.20	.21	.23	.25	.26	.27	.28	.30	.31	.31	.32	.33	33	.33	.34	.34	.34
		BKN	.15	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.30	.31	.31	.31	.31	.31	.31
		OVC	.13	.14	.16	.17	.18	.20	.21	.22	.23	.25	.26	.26	.27	.28	.28	.29	.29	.29	.29
SCT	CLR	CLR	.37	.41	.45	.49	.52	.56	.59	.62	.65	.67	.69	.71	.72	.73	.74	.75	.76	.76	.76
		SCT	.33	.37	.41	.45	.48	.52	.55	.59	.61	.64	.66	.68	.70	.71	.73	.73	.74	.74	.75
		BKN	.30	.33	.37	.40	.44	.47	.50	.53	.55	.58	.60	.62	.63	.64	.65	.66	.66	.66	.66
		OVC	.23	.26	.29	.32	.35	.37	.40	.43	.45	.48	.50	.52	.54	.55	.56	.57	.58	.58	.58
SCT	SCT	CLR	.32	.36	.39	.43	.47	.50	.53	.56	.59	.61	.63	.65	.67	.68	.69	.70	.71	.71	.72
		SCT	.29	.32	.36	.40	.43	.47	.50	.53	.56	.59	.61	.63	.65	.67	.68	.69	.70	.70	.71
		BKN	.26	.30	.33	.36	.39	.42	.45	.48	.51	.53	.55	.57	.59	.60	.61	.62	.62	.63	.63
		OVC	.21	.23	.26	.29	.31	.34	.37	.39	.42	.44	.47	.49	.50	.52	.53	.54	.55	.55	.55
SCT	BKN	CLR	.26	.29	.32	.35	.38	.41	.44	.46	.49	.51	.53	.54	.56	.57	.58	.58	.59	.59	.59
		SCT	.23	.26	.30	.33	.36	.39	.42	.44	.47	.49	.51	.53	.54	.56	.57	.57	.58	.58	.58
		BKN	.21	.24	.27	.30	.33	.36	.38	.41	.43	.45	.47	.48	.50	.51	.52	.52	.52	.52	.52
		OVC	.17	.20	.22	.24	.27	.29	.32	.34	.36	.38	.40	.42	.43	.45	.46	.46	.47	.47	.47
SCT	OVC	CLR	.16	.17	.19	.21	.22	.23	.25	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.33	.33
		SCT	.15	.16	.18	.19	.21	.22	.24	.25	.27	.28	.29	.30	.31	.31	.32	.32	.32	.33	.33
		BKN	.14	.15	.17	.18	.20	.21	.22	.24	.25	.26	.27	.28	.29	.29	.30	.30	.30	.30	.30
		OVC	.11	.13	.14	.15	.17	.18	.19	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28	.28

STATE 2-1-1

THICK HIGH CLOUD
LOW ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.30	.33	.36	.39	.42	.45	.48	.50	.52	.54	.55	.57	.58	.59	.60	.60	.61	.61	.61
		SCT	.27	.30	.33	.36	.39	.42	.45	.47	.50	.52	.54	.55	.56	.58	.59	.59	.60	.60	.60
		BKN	.25	.27	.30	.33	.36	.38	.41	.43	.45	.47	.49	.50	.52	.52	.53	.54	.54	.54	.54
		OVC	.19	.22	.24	.26	.29	.31	.33	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.48	.48
BKN	SCT	CLR	.26	.29	.32	.35	.38	.41	.43	.46	.48	.50	.51	.53	.54	.55	.56	.57	.58	.58	.58
		SCT	.24	.27	.30	.33	.36	.38	.41	.43	.46	.48	.50	.51	.53	.54	.55	.56	.57	.57	.57
		BKN	.22	.25	.27	.30	.33	.35	.38	.40	.42	.44	.46	.47	.48	.50	.50	.51	.51	.52	.52
		OVC	.17	.20	.22	.24	.26	.29	.31	.33	.35	.37	.39	.41	.42	.43	.44	.45	.46	.46	.46
BKN	BKN	CLR	.22	.24	.27	.29	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.49	.49	.49
		SCT	.20	.22	.25	.27	.30	.32	.35	.37	.39	.41	.42	.44	.45	.46	.47	.48	.48	.48	.48
		BKN	.18	.21	.23	.25	.28	.30	.32	.34	.36	.38	.39	.41	.42	.43	.43	.44	.44	.44	.44
		OVC	.15	.17	.19	.21	.23	.25	.27	.29	.31	.32	.34	.35	.37	.38	.39	.39	.40	.40	.40
BKN	OVC	CLR	.14	.15	.17	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29	.29	.29
		SCT	.13	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28	.29	.29
		BKN	.12	.13	.15	.16	.17	.18	.20	.21	.22	.23	.24	.24	.25	.26	.26	.26	.27	.27	.27
		OVC	.10	.11	.12	.13	.15	.16	.17	.18	.19	.20	.21	.22	.23	.23	.24	.24	.25	.25	.25
OVC	CLR	CLR	.13	.15	.17	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.34
		SCT	.12	.14	.15	.17	.19	.20	.22	.24	.25	.26	.28	.29	.30	.31	.31	.32	.33	.33	.33
		BKN	.11	.13	.14	.16	.18	.19	.21	.22	.23	.25	.26	.27	.28	.29	.29	.30	.30	.30	.31
		OVC	.09	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.26	.27	.28	.28	.28
OVC	SCT	CLR	.12	.14	.15	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.33
		SCT	.11	.13	.14	.16	.18	.19	.21	.22	.24	.25	.26	.27	.28	.29	.30	.31	.31	.32	.32
		BKN	.10	.12	.13	.15	.16	.18	.19	.21	.22	.23	.24	.26	.27	.27	.28	.29	.29	.29	.30
		OVC	.08	.10	.11	.12	.14	.15	.17	.18	.19	.20	.22	.23	.24	.25	.25	.26	.27	.27	.27
OVC	BKN	CLR	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29
		SCT	.09	.11	.12	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28
		BKN	.09	.10	.12	.13	.14	.16	.17	.19	.20	.21	.22	.23	.24	.24	.25	.26	.26	.26	.26
		OVC	.07	.08	.10	.11	.12	.14	.15	.16	.17	.18	.20	.21	.21	.22	.23	.23	.24	.24	.24
OVC	OVC	CLR	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.18	.18	.19	.19	.19
		SCT	.07	.08	.09	.10	.11	.11	.12	.13	.14	.15	.16	.16	.17	.17	.18	.18	.18	.19	.19
		BKN	.06	.07	.08	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.17	.17	.17	.18	.18
		OVC	.05	.06	.07	.08	.09	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.16	.16	.17

STATE 2-1-1

THICK HIGH CLOUD
LOW ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.38	.42	.45	.49	.52	.56	.59	.62	.64	.66	.68	.70	.71	.72	.72	.73	.73	.73	.73
		SCT	.34	.37	.41	.45	.48	.52	.55	.58	.61	.63	.66	.67	.69	.70	.71	.71	.71	.71	.71
		BKN	.30	.34	.37	.40	.44	.47	.50	.52	.55	.57	.59	.61	.62	.63	.63	.64	.64	.64	.64
		OVC	.24	.26	.29	.32	.34	.37	.40	.42	.45	.47	.49	.51	.53	.54	.55	.55	.56	.56	.56
CLR	SCT	CLR	.32	.36	.40	.43	.46	.50	.53	.56	.58	.60	.63	.64	.66	.67	.68	.68	.68	.68	.68
		SCT	.29	.33	.36	.40	.43	.46	.50	.53	.55	.58	.60	.62	.64	.65	.66	.67	.67	.67	.67
		BKN	.27	.30	.33	.36	.39	.42	.45	.48	.50	.52	.54	.56	.58	.59	.60	.60	.60	.60	.60
		OVC	.21	.23	.26	.28	.31	.34	.36	.39	.41	.44	.46	.48	.49	.51	.52	.52	.53	.53	.53
CLR	BKN	CLR	.26	.29	.32	.35	.38	.41	.43	.46	.48	.50	.52	.53	.55	.55	.56	.56	.56	.56	.56
		SCT	.24	.26	.29	.32	.35	.38	.41	.44	.46	.48	.50	.52	.53	.54	.55	.55	.55	.55	.55
		BKN	.22	.24	.27	.30	.32	.35	.38	.40	.42	.44	.46	.47	.49	.50	.50	.50	.50	.50	.50
		OVC	.17	.20	.22	.24	.26	.29	.31	.33	.35	.37	.39	.41	.42	.43	.44	.45	.45	.45	.45
CLR	OVC	CLR	.16	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.30	.31	.31	.31	.32	.32	.32
		SCT	.15	.16	.18	.19	.21	.22	.23	.25	.26	.27	.28	.29	.30	.30	.31	.31	.31	.31	.31
		BKN	.14	.15	.16	.18	.19	.21	.22	.23	.24	.25	.26	.27	.28	.28	.29	.29	.29	.29	.29
		OVC	.11	.13	.14	.15	.16	.18	.19	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.27	.27
SCT	CLR	CLR	.31	.35	.38	.42	.45	.49	.52	.55	.57	.60	.62	.64	.66	.67	.68	.69	.69	.69	.69
		SCT	.28	.32	.35	.39	.42	.45	.49	.52	.55	.57	.60	.62	.64	.65	.66	.67	.68	.68	.68
		BKN	.25	.29	.32	.35	.38	.41	.44	.47	.49	.52	.54	.56	.57	.59	.60	.60	.61	.61	.61
		OVC	.20	.23	.25	.28	.30	.33	.36	.38	.41	.43	.45	.47	.49	.51	.52	.53	.53	.53	.53
SCT	SCT	CLR	.27	.31	.34	.37	.41	.44	.47	.50	.52	.55	.57	.59	.61	.62	.64	.64	.65	.65	.65
		SCT	.25	.28	.31	.35	.38	.41	.44	.47	.50	.53	.55	.57	.59	.61	.62	.63	.64	.64	.64
		BKN	.23	.26	.28	.31	.34	.37	.40	.43	.46	.48	.50	.52	.54	.55	.56	.57	.57	.57	.57
		OVC	.18	.20	.23	.25	.28	.30	.33	.35	.38	.40	.42	.44	.46	.48	.49	.50	.51	.51	.51
SCT	BKN	CLR	.22	.25	.28	.31	.34	.36	.39	.41	.44	.46	.48	.50	.51	.52	.53	.54	.54	.54	.54
		SCT	.20	.23	.26	.29	.31	.34	.37	.40	.42	.44	.46	.48	.50	.51	.52	.53	.53	.53	.53
		BKN	.19	.21	.24	.26	.29	.32	.34	.36	.39	.41	.43	.44	.46	.47	.48	.48	.48	.48	.48
		OVC	.15	.17	.19	.22	.24	.26	.28	.30	.33	.35	.37	.38	.40	.41	.42	.43	.43	.43	.43
SCT	OVC	CLR	.14	.15	.17	.18	.20	.21	.23	.24	.25	.26	.27	.28	.29	.30	.30	.30	.31	.31	.31
		SCT	.13	.14	.16	.17	.19	.20	.22	.23	.24	.25	.27	.28	.28	.29	.30	.30	.30	.30	.30
		BKN	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28	.28	.28
		OVC	.10	.11	.13	.14	.15	.16	.18	.19	.20	.21	.22	.23	.24	.25	.25	.26	.26	.26	.26

STATE 2-1-2

THICK HIGH CLOUD
LOW ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																	
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.26	.29	.32	.35	.37	.40	.42	.45	.47	.49	.51	.52	.54	.55	.55	.56	.56	.57	.57
		SCT	.23	.26	.29	.32	.35	.38	.40	.43	.45	.47	.49	.51	.52	.53	.54	.55	.55	.56	.56
		BKN	.21	.24	.27	.29	.32	.34	.37	.39	.41	.43	.45	.46	.48	.49	.49	.50	.50	.50	.50
		OVC	.17	.19	.21	.23	.26	.28	.30	.32	.34	.36	.38	.40	.41	.43	.44	.44	.45	.45	.45
BKN	SCT	CLR	.23	.26	.28	.31	.34	.36	.39	.41	.43	.45	.47	.49	.50	.51	.52	.53	.54	.54	.54
		SCT	.21	.24	.26	.29	.32	.34	.37	.39	.42	.44	.46	.47	.49	.50	.51	.52	.53	.53	.53
		BKN	.19	.22	.24	.27	.29	.31	.34	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.48	.48
		OVC	.15	.17	.19	.22	.24	.26	.28	.30	.32	.34	.36	.38	.39	.40	.41	.42	.43	.43	.43
BKN	BKN	CLR	.19	.21	.24	.26	.29	.31	.33	.35	.37	.39	.40	.42	.43	.44	.45	.45	.46	.46	.46
		SCT	.17	.20	.22	.24	.27	.29	.31	.34	.36	.37	.39	.41	.42	.43	.44	.44	.45	.45	.45
		BKN	.16	.18	.20	.23	.25	.27	.29	.31	.33	.35	.36	.38	.39	.40	.40	.41	.41	.41	.41
		OVC	.13	.15	.17	.19	.21	.22	.24	.26	.28	.30	.31	.33	.34	.35	.36	.37	.37	.37	.37
BKN	OVC	CLR	.12	.14	.15	.16	.17	.19	.20	.21	.22	.23	.24	.25	.25	.26	.27	.27	.27	.27	.27
		SCT	.11	.13	.14	.15	.17	.18	.19	.20	.21	.22	.23	.24	.25	.26	.26	.27	.27	.27	.27
		BKN	.11	.12	.13	.14	.16	.17	.18	.19	.20	.21	.22	.23	.24	.24	.25	.25	.25	.25	.25
		OVC	.09	.10	.11	.12	.13	.15	.16	.17	.18	.19	.20	.21	.21	.22	.23	.23	.23	.23	.23
OVC	CLR	CLR	.13	.15	.17	.18	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.32	.32	.33	.33	.34
		SCT	.12	.14	.15	.17	.19	.20	.22	.24	.25	.26	.28	.29	.30	.31	.31	.32	.33	.33	.33
		BKN	.11	.13	.14	.16	.18	.19	.21	.22	.23	.25	.26	.27	.28	.29	.29	.30	.30	.30	.31
		OVC	.09	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.26	.27	.28	.28	.28
OVC	SCT	CLR	.12	.14	.15	.17	.19	.20	.22	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.33
		SCT	.11	.13	.14	.16	.18	.19	.21	.22	.24	.25	.26	.27	.28	.29	.30	.31	.31	.32	.32
		BKN	.10	.12	.13	.15	.16	.18	.19	.21	.22	.23	.24	.26	.27	.27	.28	.29	.29	.29	.30
		OVC	.08	.10	.11	.12	.14	.15	.17	.18	.19	.20	.22	.23	.24	.25	.25	.26	.27	.27	.27
OVC	BKN	CLR	.10	.12	.13	.15	.16	.18	.19	.20	.22	.23	.24	.25	.26	.27	.27	.28	.28	.29	.29
		SCT	.09	.11	.12	.14	.16	.17	.18	.20	.21	.22	.23	.24	.25	.26	.27	.27	.28	.28	.28
		BKN	.09	.10	.12	.13	.14	.16	.17	.19	.20	.21	.22	.23	.24	.24	.25	.26	.26	.26	.26
		OVC	.07	.08	.10	.11	.12	.14	.15	.16	.17	.18	.20	.21	.21	.22	.23	.23	.24	.24	.24
OVC	OVC	CLR	.07	.08	.09	.10	.11	.12	.13	.14	.14	.15	.16	.17	.17	.18	.18	.18	.19	.19	.19
		SCT	.07	.08	.09	.10	.11	.11	.12	.13	.14	.15	.16	.16	.17	.17	.18	.18	.18	.19	.19
		BKN	.06	.07	.08	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.17	.17	.17	.18	.18
		OVC	.05	.06	.07	.08	.09	.09	.10	.11	.12	.13	.13	.14	.15	.15	.16	.16	.16	.16	.17

STATE 2-1-2

THICK HIGH CLOUD
LOW ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.54	.58	.62	.66	.69	.72	.74	.77	.79	.80	.82	.83	.84	.84	.84	.85	.85	.85	.85
		SCT	.49	.53	.57	.61	.65	.68	.71	.74	.76	.78	.80	.81	.82	.83	.83	.84	.84	.84	.84
		BKN	.45	.49	.53	.57	.60	.64	.67	.69	.72	.74	.75	.77	.78	.78	.79	.79	.79	.79	.79
		OVC	.36	.40	.43	.47	.51	.54	.57	.60	.63	.65	.67	.69	.71	.72	.73	.73	.73	.73	.73
CLR	SCT	CLR	.48	.53	.57	.61	.64	.67	.70	.73	.75	.77	.78	.80	.81	.81	.82	.82	.82	.82	.82
		SCT	.44	.49	.53	.57	.61	.64	.67	.70	.73	.75	.77	.78	.79	.80	.81	.81	.81	.81	.81
		BKN	.41	.45	.49	.53	.56	.60	.63	.66	.68	.70	.72	.74	.75	.76	.76	.77	.77	.77	.77
		OVC	.33	.37	.40	.44	.47	.51	.54	.57	.60	.63	.65	.67	.68	.70	.70	.71	.71	.71	.71
CLR	BKN	CLR	.41	.45	.49	.53	.56	.60	.63	.65	.67	.69	.71	.72	.73	.74	.75	.75	.75	.75	.75
		SCT	.38	.42	.46	.50	.54	.57	.60	.63	.66	.68	.70	.71	.72	.73	.74	.74	.74	.74	.74
		BKN	.35	.39	.43	.46	.50	.53	.56	.59	.62	.64	.66	.67	.68	.69	.70	.70	.70	.70	.70
		OVC	.29	.32	.35	.39	.42	.46	.49	.52	.54	.57	.59	.61	.62	.64	.65	.65	.65	.65	.65
CLR	OVC	CLR	.27	.30	.33	.35	.38	.40	.43	.45	.47	.48	.50	.51	.52	.53	.53	.54	.54	.54	.54
		SCT	.26	.28	.31	.34	.36	.39	.41	.43	.45	.47	.49	.50	.51	.52	.53	.53	.53	.53	.53
		BKN	.24	.26	.29	.32	.34	.37	.39	.41	.43	.45	.46	.48	.49	.50	.50	.50	.50	.50	.50
		OVC	.20	.22	.25	.27	.30	.32	.34	.37	.39	.41	.42	.44	.45	.46	.47	.47	.47	.47	.47
SCT	CLR	CLR	.49	.53	.57	.61	.65	.68	.70	.73	.75	.77	.78	.80	.81	.82	.82	.83	.83	.83	.83
		SCT	.45	.49	.53	.57	.61	.64	.68	.70	.73	.75	.77	.78	.80	.81	.81	.82	.82	.82	.82
		BKN	.41	.45	.49	.53	.57	.60	.63	.66	.68	.71	.72	.74	.75	.76	.77	.77	.77	.77	.77
		OVC	.33	.37	.40	.44	.47	.51	.54	.57	.60	.63	.65	.67	.68	.70	.71	.71	.72	.72	.72
SCT	SCT	CLR	.44	.49	.53	.57	.60	.63	.66	.69	.71	.73	.75	.77	.78	.79	.80	.80	.81	.81	.81
		SCT	.41	.45	.49	.53	.57	.60	.64	.67	.69	.72	.74	.75	.77	.78	.79	.79	.80	.80	.80
		BKN	.37	.41	.45	.49	.53	.56	.60	.63	.65	.67	.69	.71	.72	.74	.74	.75	.75	.75	.75
		OVC	.30	.34	.38	.41	.45	.48	.51	.54	.57	.60	.62	.64	.66	.67	.69	.69	.70	.70	.70
SCT	BKN	CLR	.38	.42	.46	.49	.53	.56	.59	.62	.64	.66	.68	.70	.71	.72	.73	.73	.73	.73	.73
		SCT	.35	.39	.43	.47	.50	.54	.57	.60	.63	.65	.67	.69	.70	.71	.72	.72	.73	.73	.73
		BKN	.32	.36	.40	.43	.47	.50	.53	.56	.59	.61	.63	.65	.66	.67	.68	.68	.69	.69	.69
		OVC	.26	.30	.33	.36	.40	.43	.46	.49	.52	.55	.57	.59	.60	.62	.63	.63	.64	.64	.64
SCT	OVC	CLR	.26	.28	.31	.33	.36	.38	.40	.43	.44	.46	.48	.49	.50	.51	.52	.52	.52	.52	.52
		SCT	.24	.26	.29	.32	.34	.37	.39	.41	.43	.45	.47	.48	.49	.50	.51	.52	.52	.52	.52
		BKN	.22	.25	.27	.30	.32	.35	.37	.39	.41	.43	.45	.46	.47	.48	.49	.49	.49	.49	.49
		OVC	.19	.21	.23	.26	.28	.30	.33	.35	.37	.39	.40	.42	.43	.44	.45	.46	.46	.46	.46

STATE 2-2-1

THICK HIGH CLOUD
HIGH ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.44	.48	.52	.55	.59	.61	.64	.66	.68	.70	.72	.73	.74	.75	.75	.76	.76	.76	.76
		SCT	.40	.44	.48	.52	.55	.59	.61	.64	.66	.68	.70	.72	.73	.74	.74	.75	.75	.75	.75
		BKN	.37	.41	.45	.48	.52	.55	.57	.60	.62	.64	.66	.68	.69	.70	.70	.71	.71	.71	.71
		OVC	.30	.33	.37	.40	.43	.46	.49	.52	.55	.57	.59	.61	.63	.64	.65	.65	.66	.66	.66
BKN	SCT	CLR	.40	.44	.48	.51	.55	.58	.60	.63	.65	.67	.69	.70	.71	.72	.73	.74	.74	.74	.74
		SCT	.37	.41	.45	.48	.52	.55	.58	.61	.63	.65	.67	.69	.70	.71	.72	.73	.73	.73	.73
		BKN	.34	.38	.41	.45	.48	.51	.54	.57	.59	.62	.63	.65	.66	.67	.68	.69	.69	.69	.69
		OVC	.28	.31	.34	.37	.41	.44	.47	.50	.52	.55	.57	.59	.60	.62	.63	.64	.64	.64	.64
BKN	BKN	CLR	.34	.38	.42	.45	.48	.51	.54	.57	.59	.61	.62	.64	.65	.66	.67	.67	.67	.67	.67
		SCT	.32	.35	.39	.43	.46	.49	.52	.55	.57	.59	.61	.63	.64	.65	.66	.66	.67	.67	.67
		BKN	.29	.33	.36	.40	.43	.46	.49	.51	.54	.56	.58	.59	.60	.61	.62	.63	.63	.63	.63
		OVC	.24	.27	.30	.33	.36	.39	.42	.45	.47	.50	.52	.54	.55	.56	.57	.58	.58	.59	.59
BKN	OVC	CLR	.23	.26	.28	.31	.33	.35	.37	.39	.41	.42	.44	.45	.46	.47	.47	.48	.48	.48	.48
		SCT	.22	.24	.27	.29	.31	.34	.36	.38	.40	.41	.43	.44	.45	.46	.47	.47	.48	.48	.48
		BKN	.20	.23	.25	.27	.30	.32	.34	.36	.38	.39	.41	.42	.43	.44	.44	.45	.45	.45	.45
		OVC	.17	.19	.21	.24	.26	.28	.30	.32	.34	.35	.37	.38	.40	.41	.41	.42	.42	.42	.42
OVC	CLR	CLR	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.52	.53	.54	.55	.56	.56	.57	.57
		SCT	.24	.27	.30	.33	.36	.39	.41	.44	.46	.48	.49	.51	.52	.53	.54	.55	.56	.56	.56
		BKN	.22	.25	.28	.31	.34	.36	.39	.41	.43	.45	.47	.48	.49	.50	.51	.52	.52	.53	.53
		OVC	.18	.21	.23	.26	.29	.31	.34	.36	.38	.40	.42	.44	.45	.46	.47	.48	.49	.49	.49
OVC	SCT	CLR	.24	.27	.30	.33	.36	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.55	.55	.55
		SCT	.22	.25	.28	.31	.34	.37	.39	.42	.44	.46	.47	.49	.50	.52	.53	.53	.54	.55	.55
		BKN	.20	.23	.26	.29	.32	.34	.37	.39	.41	.43	.45	.46	.48	.49	.50	.50	.51	.51	.52
		OVC	.17	.19	.22	.25	.27	.30	.32	.34	.37	.39	.40	.42	.44	.45	.46	.47	.48	.48	.48
OVC	BKN	CLR	.21	.24	.27	.29	.32	.35	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.51
		SCT	.19	.22	.25	.28	.31	.33	.36	.38	.40	.42	.43	.45	.46	.47	.48	.49	.50	.50	.50
		BKN	.18	.21	.23	.26	.29	.31	.34	.36	.38	.39	.41	.43	.44	.45	.46	.46	.47	.47	.47
		OVC	.15	.17	.20	.22	.25	.27	.29	.31	.33	.35	.37	.39	.40	.41	.42	.43	.44	.44	.44
OVC	OVC	CLR	.15	.17	.19	.21	.23	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		SCT	.14	.16	.18	.20	.22	.24	.25	.27	.28	.30	.31	.32	.33	.34	.35	.35	.36	.36	.36
		BKN	.13	.15	.17	.19	.21	.22	.24	.26	.27	.28	.30	.31	.32	.32	.33	.34	.34	.34	.34
		OVC	.11	.13	.14	.16	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.32

STATE 2-2-1

THICK HIGH CLOUD
HIGH ALBEDO
VIS => 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
CLR	CLR	CLR	.48	.52	.56	.59	.63	.66	.68	.71	.73	.75	.76	.78	.79	.79	.80	.80	.80	.80	.80
		SCT	.44	.48	.52	.56	.59	.62	.65	.68	.71	.73	.74	.76	.77	.78	.79	.79	.79	.79	.79
		BKN	.40	.44	.48	.51	.55	.58	.61	.64	.66	.68	.70	.71	.73	.73	.74	.74	.74	.74	.74
		OVC	.32	.36	.39	.42	.45	.49	.52	.55	.57	.60	.62	.64	.66	.67	.68	.68	.68	.68	.68
CLR	SCT	CLR	.43	.47	.51	.55	.58	.61	.64	.67	.69	.71	.73	.74	.75	.76	.77	.77	.77	.77	.77
		SCT	.40	.44	.48	.51	.55	.58	.61	.64	.67	.69	.71	.73	.74	.75	.76	.76	.76	.76	.76
		BKN	.36	.40	.44	.47	.51	.54	.57	.60	.63	.65	.67	.68	.70	.71	.71	.72	.72	.72	.72
		OVC	.30	.33	.36	.39	.43	.46	.49	.52	.55	.57	.60	.62	.63	.65	.66	.66	.66	.66	.66
CLR	BKN	CLR	.37	.40	.44	.47	.51	.54	.57	.59	.62	.64	.66	.67	.68	.69	.70	.70	.70	.70	.70
		SCT	.34	.37	.41	.45	.48	.51	.54	.57	.60	.62	.64	.66	.67	.68	.69	.69	.69	.69	.69
		BKN	.31	.35	.38	.41	.45	.48	.51	.54	.56	.58	.60	.62	.63	.64	.65	.65	.65	.65	.65
		OVC	.26	.29	.32	.35	.38	.41	.44	.47	.49	.52	.54	.56	.57	.59	.60	.60	.60	.60	.60
CLR	OVC	CLR	.24	.27	.29	.31	.34	.36	.38	.40	.42	.43	.45	.46	.47	.48	.48	.49	.49	.49	.49
		SCT	.23	.25	.27	.30	.32	.34	.36	.39	.40	.42	.44	.45	.46	.47	.48	.48	.48	.48	.48
		BKN	.21	.23	.26	.28	.30	.32	.34	.36	.38	.40	.42	.43	.44	.45	.45	.46	.46	.46	.46
		OVC	.18	.20	.22	.24	.26	.28	.30	.32	.34	.36	.38	.39	.40	.41	.42	.43	.43	.43	.43
SCT	CLR	CLR	.44	.48	.52	.56	.59	.62	.65	.68	.70	.72	.74	.75	.76	.77	.78	.78	.78	.78	.78
		SCT	.40	.44	.48	.52	.56	.59	.62	.65	.68	.70	.72	.73	.75	.76	.77	.77	.77	.77	.77
		BKN	.37	.41	.45	.48	.52	.55	.58	.61	.63	.66	.67	.69	.70	.72	.72	.73	.73	.73	.73
		OVC	.30	.33	.36	.40	.43	.46	.49	.52	.55	.58	.60	.62	.64	.65	.66	.67	.67	.67	.67
SCT	SCT	CLR	.40	.44	.48	.51	.55	.58	.61	.64	.66	.68	.70	.72	.73	.74	.75	.76	.76	.76	.76
		SCT	.37	.41	.44	.48	.52	.55	.58	.61	.64	.67	.69	.70	.72	.73	.74	.75	.75	.75	.75
		BKN	.34	.37	.41	.45	.48	.51	.55	.57	.60	.62	.65	.66	.68	.69	.70	.70	.71	.71	.71
		OVC	.27	.31	.34	.37	.40	.44	.47	.50	.53	.55	.58	.60	.61	.63	.64	.65	.65	.65	.65
SCT	BKN	CLR	.34	.38	.41	.45	.48	.51	.54	.57	.59	.61	.63	.65	.66	.67	.68	.69	.69	.69	.69
		SCT	.31	.35	.39	.42	.46	.49	.52	.55	.57	.60	.62	.64	.65	.66	.67	.68	.68	.68	.68
		BKN	.29	.32	.36	.39	.43	.46	.49	.51	.54	.56	.58	.60	.61	.63	.63	.64	.64	.64	.64
		OVC	.24	.27	.30	.33	.36	.39	.42	.45	.47	.50	.52	.54	.56	.57	.58	.59	.59	.59	.59
SCT	OVC	CLR	.23	.25	.28	.30	.32	.34	.36	.38	.40	.42	.43	.45	.46	.47	.47	.48	.48	.48	.48
		SCT	.21	.24	.26	.28	.31	.33	.35	.37	.39	.41	.43	.44	.45	.46	.47	.47	.48	.48	.48
		BKN	.20	.22	.24	.27	.29	.31	.33	.35	.37	.39	.40	.42	.43	.44	.45	.45	.45	.45	.45
		OVC	.17	.19	.21	.23	.25	.27	.29	.31	.33	.35	.37	.38	.39	.41	.41	.42	.42	.42	.42

STATE 2-2-2 THICK HIGH CLOUD
HIGH ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

			COS Z																
LOW	MID	HIGH	.05	.10	.15	.20	.25	.30	.35	.40	.45	.50	.55	.60	.65	.70	.75	.80	.85	.90	.95
BKN	CLR	CLR	.40	.44	.48	.51	.54	.57	.60	.62	.64	.66	.68	.69	.70	.71	.72	.72	.72	.72	.72
		SCT	.37	.40	.44	.48	.51	.54	.57	.60	.62	.64	.66	.68	.69	.70	.71	.71	.72	.72	.72
		BKN	.34	.37	.41	.44	.48	.51	.53	.56	.58	.60	.62	.64	.65	.66	.67	.67	.67	.67	.67
		OVC	.27	.30	.34	.37	.40	.43	.46	.49	.51	.53	.56	.58	.59	.60	.61	.62	.62	.62	.62
BKN	SCT	CLR	.36	.40	.44	.47	.50	.53	.56	.59	.61	.63	.65	.66	.68	.69	.69	.70	.70	.70	.70
		SCT	.33	.37	.41	.44	.48	.51	.54	.57	.59	.61	.63	.65	.66	.68	.69	.69	.70	.70	.70
		BKN	.31	.34	.38	.41	.44	.48	.50	.53	.56	.58	.60	.61	.63	.64	.65	.65	.65	.65	.65
		OVC	.25	.28	.31	.34	.37	.40	.43	.46	.49	.51	.53	.55	.57	.58	.59	.60	.61	.61	.61
BKN	BKN	CLR	.31	.35	.38	.41	.44	.47	.50	.53	.55	.57	.59	.60	.61	.62	.63	.64	.64	.64	.64
		SCT	.29	.32	.36	.39	.42	.45	.48	.51	.53	.55	.57	.59	.60	.61	.62	.63	.63	.63	.63
		BKN	.27	.30	.33	.36	.39	.42	.45	.48	.50	.52	.54	.56	.57	.58	.59	.59	.59	.59	.59
		OVC	.22	.25	.28	.31	.33	.36	.39	.42	.44	.46	.49	.50	.52	.53	.54	.55	.55	.55	.55
BKN	OVC	CLR	.21	.24	.26	.28	.30	.32	.34	.36	.38	.39	.40	.42	.43	.44	.44	.45	.45	.45	.45
		SCT	.20	.22	.24	.27	.29	.31	.33	.35	.37	.38	.40	.41	.42	.43	.44	.44	.45	.45	.45
		BKN	.19	.21	.23	.25	.27	.29	.31	.33	.35	.36	.38	.39	.40	.41	.42	.42	.42	.42	.42
		OVC	.16	.18	.19	.21	.23	.25	.27	.29	.31	.33	.34	.36	.37	.38	.39	.39	.40	.40	.40
OVC	CLR	CLR	.26	.29	.32	.35	.38	.41	.43	.45	.47	.49	.50	.52	.53	.54	.55	.56	.56	.57	.57
		SCT	.24	.27	.30	.33	.36	.39	.41	.44	.46	.48	.49	.51	.52	.53	.54	.55	.56	.56	.56
		BKN	.22	.25	.28	.31	.34	.36	.39	.41	.43	.45	.47	.48	.49	.50	.51	.52	.52	.53	.53
		OVC	.18	.21	.23	.26	.29	.31	.34	.36	.38	.40	.42	.44	.45	.46	.47	.48	.49	.49	.49
OVC	SCT	CLR	.24	.27	.30	.33	.36	.38	.41	.43	.45	.47	.48	.50	.51	.52	.53	.54	.55	.55	.55
		SCT	.22	.25	.28	.31	.34	.37	.39	.42	.44	.46	.47	.49	.50	.52	.53	.53	.54	.55	.55
		BKN	.20	.23	.26	.29	.32	.34	.37	.39	.41	.43	.45	.46	.48	.49	.50	.50	.51	.51	.52
		OVC	.17	.19	.22	.25	.27	.30	.32	.34	.37	.39	.40	.42	.44	.45	.46	.47	.48	.48	.48
OVC	BKN	CLR	.21	.24	.27	.29	.32	.35	.37	.39	.41	.43	.44	.46	.47	.48	.49	.49	.50	.50	.51
		SCT	.19	.22	.25	.28	.31	.33	.36	.38	.40	.42	.43	.45	.46	.47	.48	.49	.50	.50	.50
		BKN	.18	.21	.23	.26	.29	.31	.34	.36	.38	.39	.41	.43	.44	.45	.46	.46	.47	.47	.47
		OVC	.15	.17	.20	.22	.25	.27	.29	.31	.33	.35	.37	.39	.40	.41	.42	.43	.44	.44	.44
OVC	OVC	CLR	.15	.17	.19	.21	.23	.24	.26	.28	.29	.30	.32	.33	.34	.34	.35	.36	.36	.36	.37
		SCT	.14	.16	.18	.20	.22	.24	.25	.27	.28	.30	.31	.32	.33	.34	.35	.35	.36	.36	.36
		BKN	.13	.15	.17	.19	.21	.22	.24	.26	.27	.28	.30	.31	.32	.32	.33	.34	.34	.34	.34
		OVC	.11	.13	.14	.16	.18	.20	.21	.23	.24	.26	.27	.28	.29	.30	.31	.31	.32	.32	.32

STATE 2-2-2 THICK HIGH CLOUD
HIGH ALBEDO
VIS < 11 KM

TABLE B-2 SOLAR TRANSMISSION (τ)

TABLE B-3. RATIO OF SOLAR IRRADIANCE (W_{SUN}) ON A 10,000 FT GROUND SURFACE TO THAT WHICH WOULD HAVE BEEN OBSERVED IF THE GROUND WERE AT SEA LEVEL

	COS Z								
.05	.15	.25	.35	.45	.55	.65	.75	.85	.95
Ground Albedo = 0.15									
1.33	1.28	1.19	1.15	1.12	1.10	1.10	1.09	1.09	1.09
Ground Albedo = 0.80									
1.28	1.23	1.15	1.12	1.09	1.08	1.07	1.07	1.07	1.07

For ground surfaces with elevations less than 10,000 ft but more than 2,000 ft, interpolate for the corresponding elevation.

Sky Radiation (W_{SKY})

Fig. B-2 consists of nomograms that produce the clear sky radiation as a function of the forecast surface temperature and dewpoint. Four nomograms cover four different ranges of surface temperature.

These nomograms produce values of the clear sky irradiance for terrain near sea level. At high terrain elevation the irradiance values will differ slightly. The differences may be positive or negative and are a function of elevation, temperature, and dewpoint. Correction tables are under development. The approximate maximum values of the difference will be:

Terrain Elevation (km)	Maximum Difference (watts/m^2)	Approximate Percentage of Clear Sky Irradiance
1	5	2
2	11	4
3	15	5

Table B-4 provides corrections that are added to the clear sky irradiance values when cloud cover is forecast. The user enters the table with the amount and height above ground level of the two lowest cloud levels forecast to obtain the correction.

The values for the cloud correction in Table B-4 are strictly valid only for terrain near sea level. At high terrain elevations the cloud corrections will be slightly larger. However, the magnitude of the differences will be small (probably less than 10 watts m^{-2}) and does not represent a major error. The largest error will occur with low clouds at high terrain elevations. Estimates of the maximum error incurred by using Table B-4 values at high terrain elevations are:

Terrain Elevation (km)	Maximum Error (watts/m^2)	Approximate Percentage of Total Cloudy Sky Irradiance
1	5	1.5
2	8	2.0
3	10	3.0

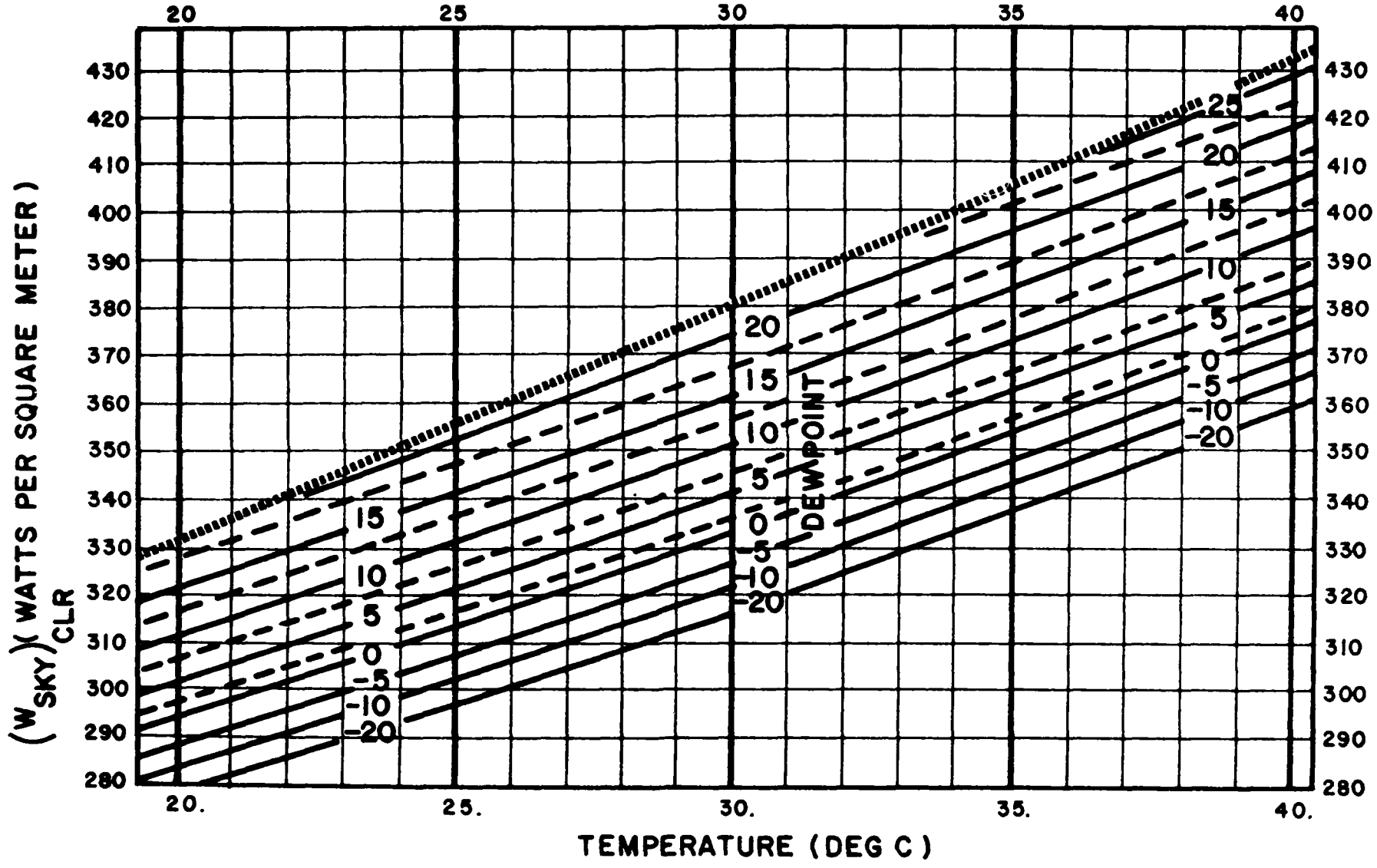


Fig. B-2. Sky Radiation (W_{SKY}) Nomogram
20^{o} to 40^{o} C

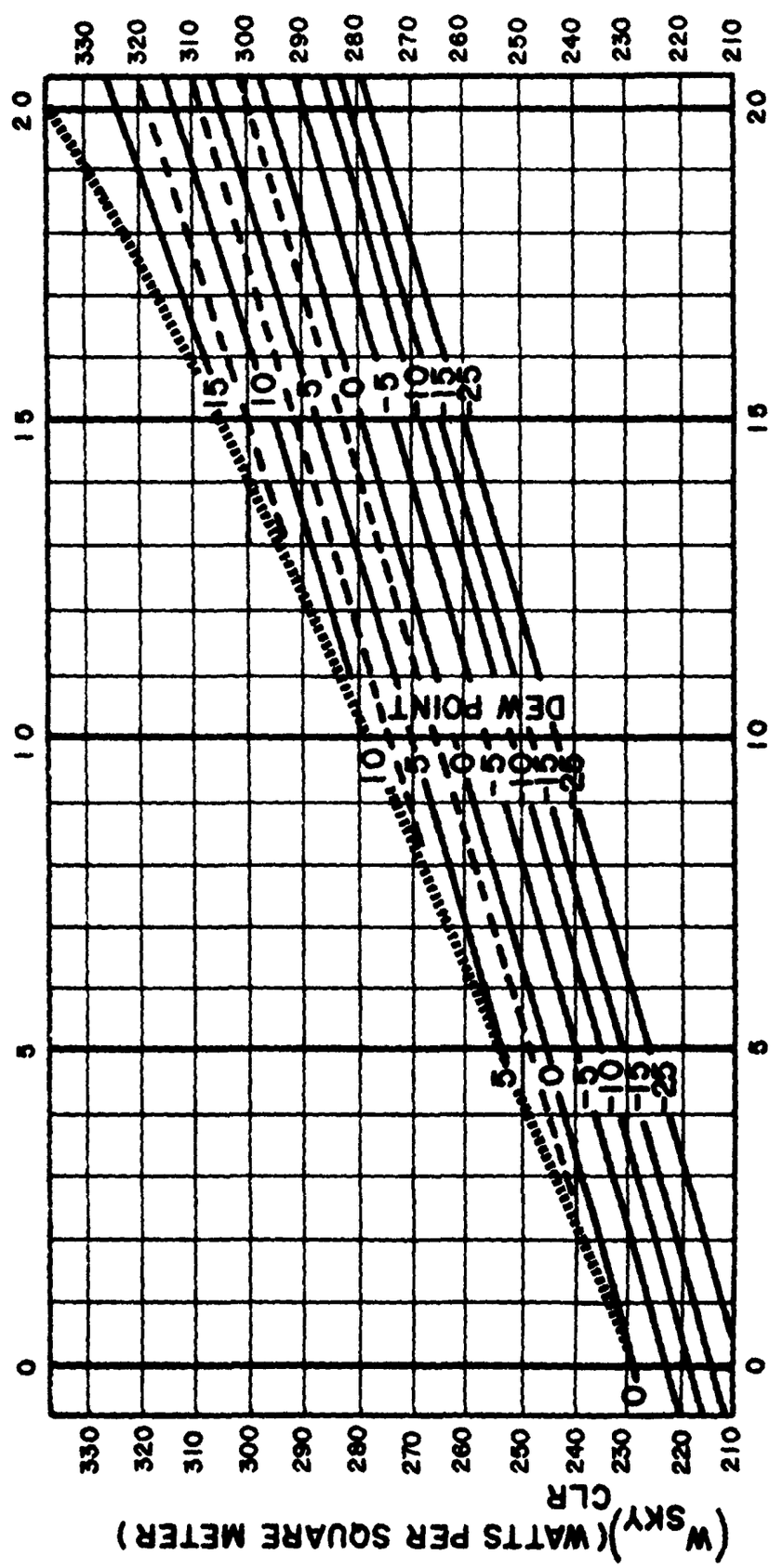


Fig. B-2. (Continued)
$0^{o}C$ to $20^{o}C$

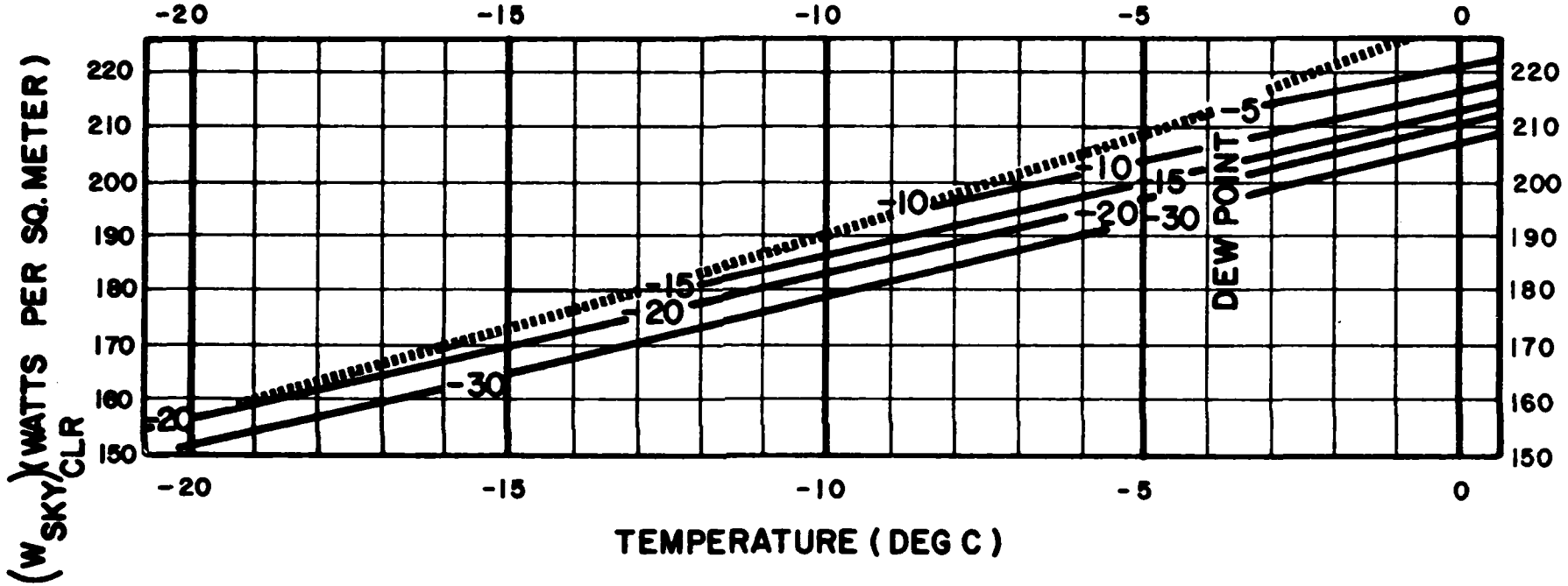


Fig. B-2. (Continued)
-20°C to 0°C

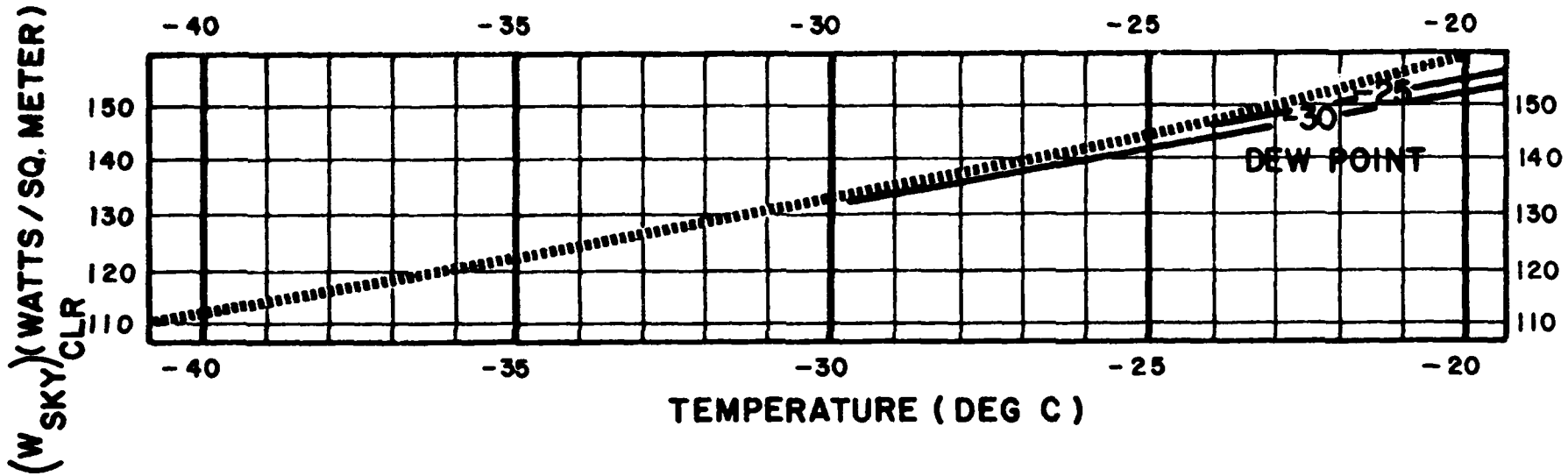


Fig. B-2. (Continued)
-40°C to -20°C

			LOWEST CLOUD LEVEL								
			Low			Middle			High		
			SCT	BKN	OVC	SCT	BKN	OVC	SCT	BKN	OVC
No Second Level			19	57	76	15	45	60	9	27	35
Second Cloud Level	MID	SCT	31	61	76	—	—	—	—	—	—
		BKN	53	65	76	—	—	—	—	—	—
		OVC	65	72	76	—	—	—	—	—	—
	HIGH	SCT	26	59	76	22	47	60	—	—	—
		BKN	39	61	76	35	49	60	—	—	—
		OVC	47	66	76	43	53	60	—	—	—

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